

Date: January 27, 2006

To: Alan Van Norman

Conestoga-Rovers & Associates, Inc.

From: Christy Barry

Re: Waukegan Manufactured Gas & Coke Plant Site

Completion Report for Perimeter Ambient Air Monitoring

This report presents and summarizes the results of limited perimeter ambient air monitoring conducted during soil remediation activities near the BRP, Inc. (BRP) facilities at the Waukegan Manufactured Gas and Coke Plant Site (Site). The Site is Operable Unit 2 of the Outboard Marine Corporation Superfund Site and is located at 180 Sea Horse Drive in Waukegan, Illinois. Perimeter ambient air monitoring was conducted on 19 active remediation days: December 2, 2004 through December 17, 2004; January 4, 2005 through January 7, 2005; and March 17, 18 and 21, 2005. The objective of the perimeter ambient air monitoring program was to provide supplemental ambient air quality data during soil remediation activities. Potential constituents of concern in ambient air included the following:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX);
- Polynuclear aromatic hydrocarbons (PAHs); and
- Particulate matter equal to or less than 10 micrometers in nominal diameter (PM_{10}).

In general, remediation activities included excavating, stockpiling, loading and off-site disposal of impacted soils. The areas of impacted soil were excavated to the water table.

The perimeter ambient air monitoring performed at the Site consisted of two components: real-time air monitoring, including sensory monitoring of emissions by field personnel; and 24-hour, time-averaged ambient air sampling. The real-time air monitoring was used to obtain instantaneous concentrations of total volatile organic compound (VOC) vapors, benzene and dust in ambient air. This data was used to determine the need to implement dust or vapor control measures if the pre-determined action levels were exceeded. Table 1 presents the real-time benzene and dust action levels. The time-averaged monitoring data was conducted to supplement the real-time ambient air monitoring results.

Real-Time Ambient Air Monitoring Methods

The real-time perimeter ambient air monitoring consisted of manual air monitoring along with notation of odors at the various locations shown on Figure 1. The real-time ambient air monitoring was performed using a photoionization detector (PID) to measure VOCs, a gas chromatograph (GC) to measure benzene and a Personal dataRAM (PDR) to measure dust. Real-time monitoring was conducted at each of the two 24-hour ambient air sampling stations located on the north side of the BRP buildings adjacent to the Site on all perimeter air monitoring days. Additional real-time monitoring was conducted in December 2004 and January 2005 to the



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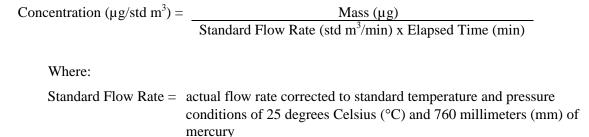
north/northwest of the active excavation area, between the excavation and the adjacent Larson Marine property; and in March 2005, at two locations to the east of the excavation areas between the Site and the public beach. Monitoring was conducted at each location approximately once per hour during remedial activities. The instruments were calibrated or zero checked daily and were operated according to the manufacturers' recommendations. Monitoring results were continuously logged on the instruments and downloaded daily. Results were also recorded on field log sheets as the monitoring was performed.

24-Hour, Time-Averaged Sampling Methods

In addition to the real-time monitoring, 24-hour time-averaged ambient air samples were collected from two locations along the north side of the BRP buildings adjacent to the Site. Station 1 was located at the eastern-most area of occupied space in the complex, southwest of the western edge of the excavation area. Station 2 was located further west, in front of the two-story engineering building. These 24-hour time-averaged stations are shown on Figure 1. The 24-hour time-averaged sampling was performed using Summa canisters with 24-hour air flow controllers to collect BTEX samples and high-volume polyurethane foam (PUF) samplers to collect PAH samples. The samplers were calibrated and operated in accordance with manufacturers' instructions and applicable United States Environmental Protection Agency (USEPA) methods.

The time-averaged samples were started before remediation activities began each work day and were collected at approximately the same time on the following day to obtain a 24-hour sample. Samples were sent to Severn-Trent Laboratories (STL) in Knoxville, Tennessee for analysis via Federal Express overnight service. STL analyzed BTEX samples by USEPA Method TO-15 and PAH samples by USEPA Method TO-13A. Upon receipt of data from STL, the raw data was reviewed, validated, and PAH concentration calculations were performed. Data from the Site meteorological station was incomplete; therefore, meteorological data from the Waukegan Regional Airport weather station, supplied by Midwestern Regional Climate Center of the National Weather Service, was used in the calculations.

PAH results were reported from the laboratory as mass in micrograms (μg) per sample. Sample concentrations in micrograms per standard cubic meter (μg /std m³) of air were calculated using the following equation, which incorporates the correction to standard temperature and barometric pressure conditions:





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Real-Time Ambient Air Monitoring Results

As presented in Table 1, real-time ambient air monitoring "yellow light" corrective action levels for benzene and dust were established as 0.05 parts per million (ppm) and 150 micrograms per cubic meter (μ g/m³) [0.150 milligrams per cubic meter (mg/m³)], respectively. The "yellow light" action levels were used as a warning level to indicate that engineering controls were needed to control vapor or dust emissions. "Red light" action levels for complete stoppage of work were set at higher levels as shown in Table 1. During perimeter air monitoring sampling events, no VOCs or benzene were detected in air at any of the real-time monitoring stations. In addition, dust concentrations were consistently below the "yellow light" corrective action level.

No odors from excavation activities were noticed throughout the monitoring period at 24-hour air monitoring stations at the BRP buildings. Occasionally, odors related to the excavating, stockpiling and truck loading activities were present near the real-time air monitoring station between the excavations and Larsen Marine, depending upon remedial activities and wind direction. Odors were also noted along the west side of the former OMC Data building on-site, by the Site construction trailers, on Sea Horse Drive, and at the BRP gate that was used to access the 24-hour air monitoring stations. No odor suppressing or masking agents were used on-site to minimize odors on days when the perimeter air monitoring field person was present at the Site.

24-Hour, Time-Averaged Sampling Results

Table 2 presents a summary of the analytical data collected from the time-averaged air monitoring.

Attachments

cc: James R. Campbell – Engineering Management, Inc. Steven J. Matuszak – Peoples Energy Jim Langseth – Barr Engineering Company Larry Milner – Burns & McDonnell Tables
Completion Report for Perimeter Ambient Air Monitoring
Waukegan Manufactured Gas & Coke Plant Site

Table 1 Real-Time Ambient Air Monitoring Action Levels Soil Remediation Activities Waukegan Manufactured Gas & Coke Plant Site

Analyte	"Yellow Light" Action Level	Recommended Actions	"Red Light" Action Level	Recommended Actions
Benzene	0.05 ppm	 Cover soil cuttings with polypropylene sheeting or containerize excavated material. Apply VOC emission suppressant foam to excavations. Slow excavation activities. Re-sample air and obtain concentration readings below action levels. 	0.5 ppm	 Stop all excavation activities. Contact project manager for instructions.
Dust	150 μg/m ³	 Cover soil cuttings with polypropylene sheeting or containerize excavated material. Apply water to areas of activity/roads to minimize dust. Slow excavation activities. Re-sample air and obtain concentration readings below action levels. 	500 μg/m ³	 Stop all excavation activities. Contact project manager for instructions.

- 1) Benzene action levels based on professional judgment and experience at other manufactured gas plant sites.
- 2) The "yellow light" dust action level is the USEPA National Ambient Air Quality Standard for PM₁₀ from 40 CFR 50.6 "National Primary and Secondary Ambient Air Quality Standards for PM(10)." [36 FR 22384, Nov. 25, 1971, as amended at 52 FR 24663, July 1, 1987; 62 FR 38652, July 18, 1997].
- 3) The "red light" dust action level is the Emergency Episode Stage concentration set forth for PM₁₀ in Illinois Title 35: Environmental Protection, Subtitle B: Air Pollution, Chapter 1: Pollution Control Board, Subchapter 1: Air Quality Standards and Episodes, Subpart D: Episode Stages, Section 244.161, May 15, 1992.

Date: 12/2/2004	Sample Location	and Concentration	Date: 12/3/2004	Sample Location	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
E	3TEX (μg/m³)		[BTEX (µg/m³)	
Benzene	1.1	1.4	Benzene	1.0	1.1
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	2.4	2.5	Toluene	3.2	4.3
o-Xylene	0.87 U	0.87 U	o-Xylene	0.87 U	0.87 U
m-Xylene & p-Xylene	1.2	1.4	m-Xylene & p-Xylene	1.9	2.0
PA	ιHs (μg/std. m ³)		P.A	λHs (μg/std. m ³)	
Acenaphthene	NC	NC	Acenaphthene	0.015 U	0.014 U
Acenaphthylene	NC	NC	Acenaphthylene	0.015 U	0.014 U
Anthracene	NC	NC	Anthracene	0.015 U	0.014 U
Benzo(a)anthracene	NC	NC	Benzo(a)anthracene	0.015 U	0.014 U
Benzo(b)fluoranthene	NC	NC	Benzo(b)fluoranthene	0.015 U	0.014 U
Benzo(k)fluoranthene	NC	NC	Benzo(k)fluoranthene	0.015 U	0.014 U
Benzo(a)pyrene	NC	NC	Benzo(a)pyrene	0.015 U	0.014 U
Benzo(g,h,i)perylene	NC	NC	Benzo(g,h,i)perylene	0.015 U	0.014 U
Chrysene	NC	NC	Chrysene	0.015 U	0.014 U
Dibenzo(a,h)anthracene	NC	NC	Dibenzo(a,h)anthracene	0.015 U	0.014 U
Fluoranthene	NC	NC	Fluoranthene	0.015 U	0.014 U
Fluorene	NC	NC	Fluorene	0.015 U	0.014 U
Indeno(1,2,3-cd)pyrene	NC	NC	Indeno(1,2,3-cd)pyrene	0.015 U	0.014 U
Naphthalene	NC	NC	Naphthalene	0.029 U	0.046
Phenanthrene	NC	NC	Phenanthrene	0.015	0.014 U
Pyrene	NC	NC	Pyrene	0.015 U	0.014 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

⁴⁾ NC - not collected; power failure

Date: 12/6/2004	Sample Location a	and Concentration	Date: 12/7/2004	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
· ·	BTEX (μg/m³)			BTEX (μg/m³)	
Benzene	2.4	2.3	Benzene	1.7	1.9
Ethylbenzene	1.00	1.1	Ethylbenzene	0.87 U	0.87 U
Toluene	8.3	7.2	Toluene	4.3	3.5
o-Xylene	1.3	1.3	o-Xylene	0.87 U	1.0
m-Xylene & p-Xylene	3.0	2.7	m-Xylene & p-Xylene	1.9	2.3
P.A	ιHs (μg/std. m ³)		P.A	ιHs (μg/std. m ³)	
Acenaphthene	0.015 U	0.015 U	Acenaphthene	0.015 U	0.014 U
Acenaphthylene	0.015 U	0.016	Acenaphthylene	0.015 U	0.014 U
Anthracene	0.015 U	0.015 U	Anthracene	0.015 U	0.014 U
Benzo(a)anthracene	0.015 U	0.015 U	Benzo(a)anthracene	0.015 U	0.014 U
Benzo(b)fluoranthene	0.015 U	0.015 U	Benzo(b)fluoranthene	0.015 U	0.014 U
Benzo(k)fluoranthene	0.015 U	0.015 U	Benzo(k)fluoranthene	0.015 U	0.014 U
Benzo(a)pyrene	0.015 U	0.015 U	Benzo(a)pyrene	0.015 U	0.014 U
Benzo(g,h,i)perylene	0.015 U	0.015 U	Benzo(g,h,i)perylene	0.015 U	0.014 U
Chrysene	0.015 U	0.015 U	Chrysene	0.015 U	0.014 U
Dibenzo(a,h)anthracene	0.015 U	0.015 U	Dibenzo(a,h)anthracene	0.015 U	0.014 U
Fluoranthene	0.015 U	0.015 U	Fluoranthene	0.015 U	0.014 U
Fluorene	0.015 U	0.015 U	Fluorene	0.015 U	0.014 U
Indeno(1,2,3-cd)pyrene	0.015 U	0.015 U	Indeno(1,2,3-cd)pyrene	0.015 U	0.014 U
Naphthalene	0.18	0.76	Naphthalene	0.12	0.092
Phenanthrene	0.018	0.024	Phenanthrene	0.015 U	0.014 U
Pyrene	0.015 U	0.015 U	Pyrene	0.015 U	0.014 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Date: 12/8/2004	Sample Location a	and Concentration	Date: 12/9/2004	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
· ·	BTEX (μg/m³)			BTEX (µg/m³)	
Benzene	1.5	NC	Benzene	3.5	4.9
Ethylbenzene	0.87 U	NC	Ethylbenzene	1.3	5.1
Toluene	3.3	NC	Toluene	6.7	15
o-Xylene	0.87 U	NC	o-Xylene	1.3	7.4
m-Xylene & p-Xylene	1.7	NC	m-Xylene & p-Xylene	4.0	20
PA	λHs (μg/std. m³)		P.A	λHs (μg/std. m ³)	
Acenaphthene	0.015 U	0.015 U	Acenaphthene	0.018	0.015 U
Acenaphthylene	0.015 U	0.015 U	Acenaphthylene	0.046	0.029
Anthracene	0.015 U	0.015 U	Anthracene	0.015 U	0.015 U
Benzo(a)anthracene	0.015 U	0.015 U	Benzo(a)anthracene	0.015 U	0.015 U
Benzo(b)fluoranthene	0.015 U	0.015 U	Benzo(b)fluoranthene	0.015 U	0.015 U
Benzo(k)fluoranthene	0.015 U	0.015 U	Benzo(k)fluoranthene	0.015 U	0.015 U
Benzo(a)pyrene	0.015 U	0.015 U	Benzo(a)pyrene	0.015 U	0.015 U
Benzo(g,h,i)perylene	0.015 U	0.015 U	Benzo(g,h,i)perylene	0.015 U	0.015 U
Chrysene	0.015 U	0.015 U	Chrysene	0.015 U	0.015 U
Dibenzo(a,h)anthracene	0.015 U	0.015 U	Dibenzo(a,h)anthracene	0.015 U	0.015 U
Fluoranthene	0.015 U	0.015 U	Fluoranthene	0.015 U	0.015 U
Fluorene	0.015 U	0.015 U	Fluorene	0.028	0.015 U
Indeno(1,2,3-cd)pyrene	0.015 U	0.015 U	Indeno(1,2,3-cd)pyrene	0.015 U	0.015 U
Naphthalene	0.10	0.16	Naphthalene	1.8	1.2
Phenanthrene	0.015 U	0.015 U	Phenanthrene	0.033	0.024
Pyrene	0.015 U	0.015 U	Pyrene	0.015 U	0.015 U

¹⁾ µg/m³ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

⁴⁾ NC - not collected; equipment malfunction

Date: 12/10/2004	Sample Location	and Concentration	Date: 12/13/2004	Sample Location	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
E	3TEX (μg/m³)			BTEX (μg/m³)	
Benzene	2.0 J	NA	Benzene	0.78	1.1
Ethylbenzene	1.2 UJ	NA	Ethylbenzene	0.87 U	0.87 U
Toluene	2.9 J	NA	Toluene	0.75 U	0.77
o-Xylene	1.2 UJ	NA	o-Xylene	0.87 U	0.87 U
m-Xylene & p-Xylene	1.8 J	NA	m-Xylene & p-Xylene	0.87 U	0.87 U
PA	ιHs (μg/std. m ³)		P.A	ιHs (μg/std. m ³)	
Acenaphthene	0.017	0.014 U	Acenaphthene	0.014 U	0.014 U
Acenaphthylene	0.035	0.021	Acenaphthylene	0.014 U	0.014 U
Anthracene	0.015 U	0.014 U	Anthracene	0.014 U	0.014 U
Benzo(a)anthracene	0.015 U	0.014 U	Benzo(a)anthracene	0.014 U	0.014 U
Benzo(b)fluoranthene	0.015 U	0.014 U	Benzo(b)fluoranthene	0.014 U	0.014 U
Benzo(k)fluoranthene	0.015 U	0.014 U	Benzo(k)fluoranthene	0.014 U	0.014 U
Benzo(a)pyrene	0.015 U	0.014 U	Benzo(a)pyrene	0.014 U	0.014 U
Benzo(g,h,i)perylene	0.015 U	0.014 U	Benzo(g,h,i)perylene	0.014 U	0.014 U
Chrysene	0.015 U	0.014 U	Chrysene	0.014 U	0.014 U
Dibenzo(a,h)anthracene	0.015 U	0.014 U	Dibenzo(a,h)anthracene	0.014 U	0.014 U
Fluoranthene	0.015 U	0.014 U	Fluoranthene	0.014 U	0.014 U
Fluorene	0.038	0.014 U	Fluorene	0.014 U	0.014 U
Indeno(1,2,3-cd)pyrene	0.015 U	0.014 U	Indeno(1,2,3-cd)pyrene	0.014 U	0.014 U
Naphthalene	2.6	0.95	Naphthalene	0.029 U	0.049
Phenanthrene	0.022	0.014 U	Phenanthrene	0.014 U	0.014 U
Pyrene	0.015 U	0.014 U	Pyrene	0.014 U	0.014 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

⁴⁾ NA - not analyzed; sample lost in laboratory accident.

⁵⁾ J - indicates an estimated value.

Date: 12/14/2004	Sample Location a	and Concentration	Date: 12/15/2004	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
	BTEX (µg/m³)			BTEX (µg/m³)	
Benzene	0.68	1.0	Benzene	0.72	0.66
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	0.86	2.5	Toluene	3.9	3.0
o-Xylene	0.87 U	0.87 U	o-Xylene	0.87 U	0.87 U
m-Xylene & p-Xylene	0.87 U	0.92	m-Xylene & p-Xylene	0.87 U	0.87 U
P.A	λΗs (μg/std. m ³)		P.A	λΗs (μg/std. m ³)	
Acenaphthene	0.014 U	0.014 U	Acenaphthene	0.015 U	0.015 U
Acenaphthylene	0.014 U	0.014 U	Acenaphthylene	0.015 U	0.015 U
Anthracene	0.014 U	0.014 U	Anthracene	0.015 U	0.015 U
Benzo(a)anthracene	0.014 U	0.014 U	Benzo(a)anthracene	0.015 U	0.015 U
Benzo(b)fluoranthene	0.014 U	0.014 U	Benzo(b)fluoranthene	0.015 U	0.015 U
Benzo(k)fluoranthene	0.014 U	0.014 U	Benzo(k)fluoranthene	0.015 U	0.015 U
Benzo(a)pyrene	0.014 U	0.014 U	Benzo(a)pyrene	0.015 U	0.015 U
Benzo(g,h,i)perylene	0.014 U	0.014 U	Benzo(g,h,i)perylene	0.015 U	0.015 U
Chrysene	0.014 U	0.014 U	Chrysene	0.015 U	0.015 U
Dibenzo(a,h)anthracene	0.014 U	0.014 U	Dibenzo(a,h)anthracene	0.015 U	0.015 U
Fluoranthene	0.014 U	0.014 U	Fluoranthene	0.015 U	0.015 U
Fluorene	0.014 U	0.014 U	Fluorene	0.015 U	0.015 U
Indeno(1,2,3-cd)pyrene	0.014 U	0.014 U	Indeno(1,2,3-cd)pyrene	0.015 U	0.015 U
Naphthalene	0.080	0.34	Naphthalene	0.20	0.061
Phenanthrene	0.014 U	0.014 U	Phenanthrene	0.015 U	0.015 U
Pyrene	0.014 U	0.014 U	Pyrene	0.015 U	0.015 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Date: 12/16/2004	Sample Location a	and Concentration	Date: 12/17/2004	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
· ·	BTEX (µg/m³)		I	BTEX (µg/m³)	
Benzene	0.64 U	1.2	Benzene	1.1	1.2
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	0.75 U	2.5	Toluene	3.7	4.6
o-Xylene	0.87 U	0.91	o-Xylene	0.87 U	0.87 U
m-Xylene & p-Xylene	0.87 U	2.1	m-Xylene & p-Xylene	1.8	2.8
PA	λHs (μg/std. m ³)		P.A	λHs (μg/std. m ³)	
Acenaphthene	0.014 U	0.014 U	Acenaphthene	0.014 U	0.015 U
Acenaphthylene	0.014 U	0.014 U	Acenaphthylene	0.014 U	0.015 U
Anthracene	0.014 U	0.014 U	Anthracene	0.014 U	0.015 U
Benzo(a)anthracene	0.014 U	0.014 U	Benzo(a)anthracene	0.014 U	0.015 U
Benzo(b)fluoranthene	0.014 U	0.014 U	Benzo(b)fluoranthene	0.014 U	0.015 U
Benzo(k)fluoranthene	0.014 U	0.014 U	Benzo(k)fluoranthene	0.014 U	0.015 U
Benzo(a)pyrene	0.014 U	0.014 U	Benzo(a)pyrene	0.014 U	0.015 U
Benzo(g,h,i)perylene	0.014 U	0.014 U	Benzo(g,h,i)perylene	0.014 U	0.015 U
Chrysene	0.014 U	0.014 U	Chrysene	0.014 U	0.015 U
Dibenzo(a,h)anthracene	0.014 U	0.014 U	Dibenzo(a,h)anthracene	0.014 U	0.015 U
Fluoranthene	0.014 U	0.014 U	Fluoranthene	0.014 U	0.015 U
Fluorene	0.014 U	0.014 U	Fluorene	0.014 U	0.015 U
Indeno(1,2,3-cd)pyrene	0.014 U	0.014 U	Indeno(1,2,3-cd)pyrene	0.014 U	0.015 U
Naphthalene	0.057	0.14	Naphthalene	0.086	0.30
Phenanthrene	0.014 U	0.014 U	Phenanthrene	0.014 U	0.015 U
Pyrene	0.014 U	0.014 U	Pyrene	0.014 U	0.015 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Date: 1/4/2005	Sample Location a	and Concentration	Date: 1/5/2005	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
· ·	BTEX (µg/m³)			BTEX (μg/m³)	
Benzene	0.66	0.86	Benzene	0.64 U	2.2
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	0.93	1.2	Toluene	0.75 U	3.2
o-Xylene	0.87 U	0.87 U	o-Xylene	0.87 U	1.3
m-Xylene & p-Xylene	0.87 U	0.87 U	m-Xylene & p-Xylene	0.87 U	2.6
P.A	λHs (μg/std. m ³)		P.A	ιHs (μg/std. m ³)	
Acenaphthene	0.014 U	0.015 U	Acenaphthene	0.014 U	0.015 U
Acenaphthylene	0.014 U	0.015 U	Acenaphthylene	0.014 U	0.015 U
Anthracene	0.014 U	0.015 U	Anthracene	0.014 U	0.015 U
Benzo(a)anthracene	0.014 U	0.015 U	Benzo(a)anthracene	0.014 U	0.015 U
Benzo(b)fluoranthene	0.014 U	0.015 U	Benzo(b)fluoranthene	0.014 U	0.015 U
Benzo(k)fluoranthene	0.014 U	0.015 U	Benzo(k)fluoranthene	0.014 U	0.015 U
Benzo(a)pyrene	0.014 U	0.015 U	Benzo(a)pyrene	0.014 U	0.015 U
Benzo(g,h,i)perylene	0.014 U	0.015 U	Benzo(g,h,i)perylene	0.014 U	0.015 U
Chrysene	0.014 U	0.015 U	Chrysene	0.014 U	0.015 U
Dibenzo(a,h)anthracene	0.014 U	0.015 U	Dibenzo(a,h)anthracene	0.014 U	0.015 U
Fluoranthene	0.014 U	0.015 U	Fluoranthene	0.014 U	0.015 U
Fluorene	0.014 U	0.015 U	Fluorene	0.014 U	0.015 U
Indeno(1,2,3-cd)pyrene	0.014 U	0.015 U	Indeno(1,2,3-cd)pyrene	0.014 U	0.015 U
Naphthalene	1.1	0.13	Naphthalene	0.28	1.3
Phenanthrene	0.014 U	0.015 U	Phenanthrene	0.014 U	0.015 U
Pyrene	0.014 U	0.015 U	Pyrene	0.014 U	0.015 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Date: 1/6/2005	Sample Location a	and Concentration	Date: 1/7/2005	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
E	BTEX (μg/m³)			BTEX (µg/m³)	
Benzene	1.5	1.7	Benzene	1.3	1.6
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	2.6	3.1	Toluene	2.9	6.4
o-Xylene	0.87 U	0.87 U	o-Xylene	0.87 U	1.00
m-Xylene & p-Xylene	1.3	1.6	m-Xylene & p-Xylene	0.87 U	2.7
PA	λHs (μg/std. m³)		P.F	λHs (μg/std. m³)	
Acenaphthene	0.014 U	0.014 U	Acenaphthene	0.014 U	0.014 U
Acenaphthylene	0.014 U	0.014 U	Acenaphthylene	0.014 U	0.014 U
Anthracene	0.014 U	0.014 U	Anthracene	0.014 U	0.014 U
Benzo(a)anthracene	0.014 U	0.014 U	Benzo(a)anthracene	0.014 U	0.014 U
Benzo(b)fluoranthene	0.014 U	0.014 U	Benzo(b)fluoranthene	0.014 U	0.014 U
Benzo(k)fluoranthene	0.014 U	0.014 U	Benzo(k)fluoranthene	0.014 U	0.014 U
Benzo(a)pyrene	0.014 U	0.014 U	Benzo(a)pyrene	0.014 U	0.014 U
Benzo(g,h,i)perylene	0.014 U	0.014 U	Benzo(g,h,i)perylene	0.014 U	0.014 U
Chrysene	0.014 U	0.014 U	Chrysene	0.014 U	0.014 U
Dibenzo(a,h)anthracene	0.014 U	0.014 U	Dibenzo(a,h)anthracene	0.014 U	0.014 U
Fluoranthene	0.014 U	0.014 U	Fluoranthene	0.014 U	0.014 U
Fluorene	0.014 U	0.014 U	Fluorene	0.014 U	0.014 U
Indeno(1,2,3-cd)pyrene	0.014 U	0.014 U	Indeno(1,2,3-cd)pyrene	0.014 U	0.014 U
Naphthalene	0.19	0.17	Naphthalene	0.17	0.20
Phenanthrene	0.014 U	0.014 U	Phenanthrene	0.014 U	0.014 U
Pyrene	0.014 U	0.014 U	Pyrene	0.014 U	0.014 U

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Date: 3/17/2005	Sample Location a	and Concentration	Date: 3/18/2005	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2	Compound/Analyte	Station 1	Station 2
	BTEX (μg/m³)			BTEX (µg/m³)	
Benzene	1.4	1.0	Benzene	0.97	1.7
Ethylbenzene	0.87 U	0.87 U	Ethylbenzene	0.87 U	0.87 U
Toluene	1.9	0.91	Toluene	2.2	1.9
o-Xylene	0.87 U	0.87 U	o-Xylene	0.87 U	0.87 U
m-Xylene & p-Xylene	1.1	0.87 U	m-Xylene & p-Xylene	0.87 U	0.87 U
P.A	λHs (μg/std. m³)		P.F	λHs (μg/std. m ³)	
Acenaphthene	0.023 J	0.016 UJ	Acenaphthene	0.025 J	0.037 J
Acenaphthylene	0.014 UJ	0.016 UJ	Acenaphthylene	0.014 UJ	0.016 J
Anthracene	0.014 UJ	0.016 UJ	Anthracene	0.014 UJ	0.015 UJ
Benzo(a)anthracene	0.014 UJ	0.016 UJ	Benzo(a)anthracene	0.014 UJ	0.015 UJ
Benzo(b)fluoranthene	0.014 UJ	0.016 UJ	Benzo(b)fluoranthene	0.014 UJ	0.015 UJ
Benzo(k)fluoranthene	0.014 UJ	0.016 UJ	Benzo(k)fluoranthene	0.014 UJ	0.015 UJ
Benzo(a)pyrene	0.014 UJ	0.016 UJ	Benzo(a)pyrene	0.014 UJ	0.015 UJ
Benzo(g,h,i)perylene	0.014 UJ	0.016 UJ	Benzo(g,h,i)perylene	0.014 UJ	0.015 UJ
Chrysene	0.014 UJ	0.016 UJ	Chrysene	0.014 UJ	0.015 UJ
Dibenzo(a,h)anthracene	0.014 UJ	0.016 UJ	Dibenzo(a,h)anthracene	0.014 UJ	0.015 UJ
Fluoranthene	0.014 UJ	0.016 UJ	Fluoranthene	0.014 UJ	0.015 UJ
Fluorene	0.039 J	0.016 J	Fluorene	0.041 J	0.052 J
Indeno(1,2,3-cd)pyrene	0.014 UJ	0.016 UJ	Indeno(1,2,3-cd)pyrene	0.014 UJ	0.015 UJ
Naphthalene	1.6 J	0.89 J	Naphthalene	1.6 J	4.9 J
Phenanthrene	0.027 J	0.016 UJ	Phenanthrene	0.027 J	0.028 J
Pyrene	0.014 UJ	0.016 UJ	Pyrene	0.014 UJ	0.015 UJ

¹⁾ $\mu g/m^3$ - microgram per cubic meter

²⁾ μ g/std. m^3 - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

⁴⁾ J - indicates an estimated value.

Date: 3/21/2005	Sample Location a	and Concentration
Compound/Analyte	Station 1	Station 2
	BTEX (µg/m³)	
Benzene	1.6	2.4
Ethylbenzene	0.87 U	0.87 U
Toluene	2.3	3.7
o-Xylene	0.87 U	1.1
m-Xylene & p-Xylene	1.5	3.3
P.A	λHs (μg/std. m ³)	
Acenaphthene	0.050	0.044
Acenaphthylene	0.031	0.022
Anthracene	0.014 U	0.016 U
Benzo(a)anthracene	0.014 U	0.016 U
Benzo(b)fluoranthene	0.014 U	0.016 U
Benzo(k)fluoranthene	0.014 U	0.016 U
Benzo(a)pyrene	0.014 U	0.016 U
Benzo(g,h,i)perylene	0.014 U	0.016 U
Chrysene	0.014 U	0.016 U
Dibenzo(a,h)anthracene	0.014 U	0.016 U
Fluoranthene	0.014 U	0.016 U
Fluorene	0.10	0.098
Indeno(1,2,3-cd)pyrene	0.014 U	0.016 U
Naphthalene	6.1	15
Phenanthrene	0.056	0.044
Pyrene	0.014 U	0.016 U

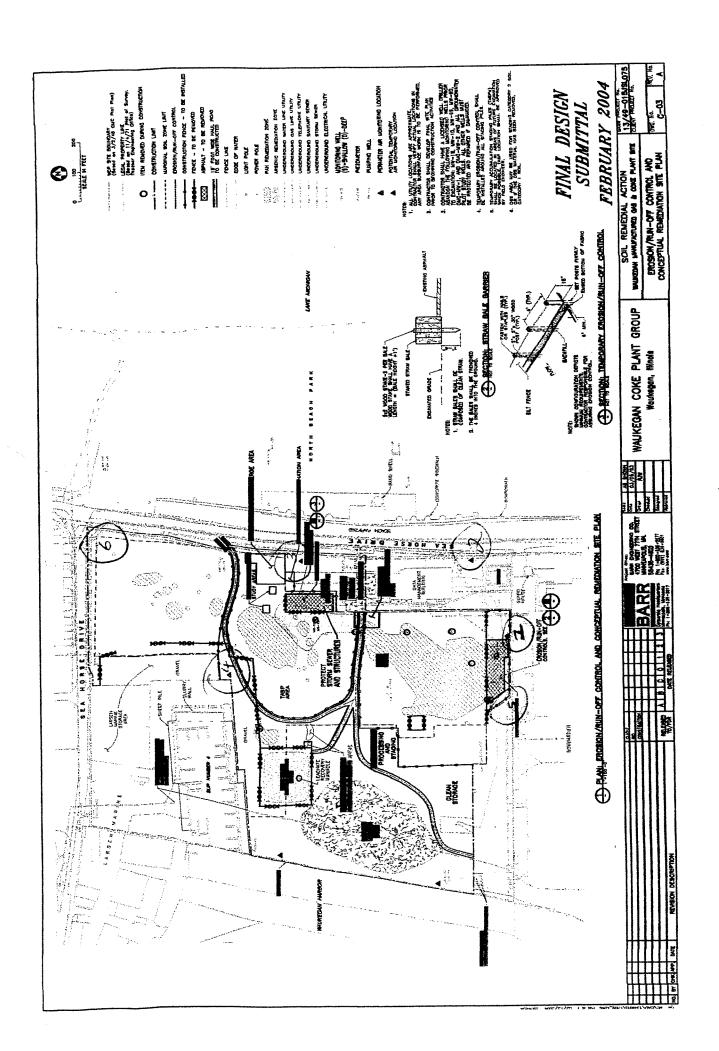
¹⁾ µg/m³ - microgram per cubic meter

²⁾ $\mu g/std.\ m^3$ - micrograms per standard cubic meter

³⁾ U - compound not detected; reporting limit shown

Figure
Completion Report for Perimeter Ambient Air Monitoring
Waukegan Manufactured Gas & Coke Plant Site

GAS & COKE PLANT SITE



	;		Ë	‡ ;	Dannistins	Actinity	Airborne Particulate (molm3) ¹	Visual PID ⁵ Duet (mm) ²	Visual PID ⁵ Duet (mm) ²	Benzene Dreager Tube (mm)	Comment
Date	Weather	Wind Direction	111116	F0C. #	Description	hinnin	(Cu., 8m.)	7	/m.dd	(mdd)	}
12/2/2004	30's Cloudy	From Northwest	11:25	-	Southeast Corner of PAH Zone	Excavating	0	None	7	ı	Downwind PAML ³
12/2/2004	30's Cloudy	From Northwest	11:35	2	Southeast Corner of Data Management Bldg.	Excavating	0	None	7	ı	Downwind TAML⁴
12/2/2004	30's Cloudy	From Northwest	11:45	ъ	East of Asphalt Parking Lot	Excavating	0	None	∇	ì	Upwind TAML
12/2/2004	30's Cloudy	From Northwest	11:50	4	North End of PAH Zone	Excavating	0	None	7	1	Upwind PAML
12/2/2004	30's Cloudy	From Northwest	14:05	r	Southeast Corner of PAH Zone	Excavating	0	None	7	1	Downwind PAML
12/2/2004	30's Cloudy	From Northwest	14:10	2	Southeast Corner of Data Management Bldg.	Excavating	0	None	7	ŧ	Downwind TAML
12/2/2004	12/2/2004 30's Cloudy	From Northwest	14:15	E	East of Asphalt Parking Lot	Excavating	0	None	∇	,	Upwind TAML
12/2/2004	12/2/2004 30's Cloudy	From Northwest	14:20	4	North End of PAH Zone	Excavating	0	None	$\overline{\sim}$		Upwind PAML
12/2/2004	12/2/2004 30's Cloudy	From Northwest	14:45-15:00	1	Southeast End of Excavation Area	Excavating	,	. 1	•	0	Downwind

mg/m³ - milligrams per cubic meter
 ppm - parts per million
 PAML - perimeter air monitoring location
 TAML - temporary air monitoring location
 PID - photoionization detector

Time Lo	'ime Loc.# 10:15 1	Description Southeast Corner of PAH Zone	Activity Excavating	Airborne Particulate (mg/m3) ¹	Visual Dust (Benzene Visual PID ⁵ Dreager Ti Dust (ppm) ² (ppm) None <1	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm) None <1	Comment Downwind PAML
2 Sout		Southeast Corner of Data Management Bldg.	Excavating	0	None	7	,	Downwind TAML
ಜ		East of Asphalt Parking Lot	Excavating	0.002	None	∇		Upwind TAML
4		North End of PAH Zone	Excavating	0.001	None	∇	ı	Upwind PAML
1 So	So	Southeast Corner of PAH Zone	Excavating	0.001	None	7	1	Downwind PAML
2 Southeas	heas	Southeast Corner of Data Management Bldg.	Excavating	0.003	None	∇	1	Downwind TAML
3		East of Asphalt Parking Lot	Excavating	0.002	None <1	∇	•	Upwind TAML
4		North End of PAH Zone	Excavating	0.001	None	∇		Upwind PAML
os -	Son	Southeast End of Excavation Area	Excavating	ŧ	,	,	0	Downwind

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

						: :	Airborne Particulate	Visual PID ⁵	Visual PID ⁵	Benzene Dreager Tube (nnm)	Comment
Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	(cm/8m)	1800	(made)		
12/6/2004	50's Light Drizzle	From Southeast	10:00	,	Southeast Come of PAH Zone	Excavating	0.004	None	∇	ì	Upwind PAML
12/6/2004		From Southeast	10:05	2	Southeast Corner of Data Management Bldg.	Excavating	0.003	None	∇	1	Upwind TAML
12/6/2004		From Southeast	10:10	3	East of Asphalt Parking Lot	Excavating	0.004	None	∇	•	Downwind TAML
12/6/2004	50's Light Drizzle	From Southeast	10:12	4	North End of PAH Zone	Excavating	0.007	None	∇	ŧ	Downwind TAML
12/6/2004	50's Light Drizzle	From Southeast	11:30-11:45	,	Northwest End of Excavation Area	Excavating	1	1	•	0	Downwind
12/6/2004	50's Light Drizzle	From Southeast	13:30	1	Southeast Corner of PAH Zone	Excavating	0.007	None	7	ı	Upwind PAML
12/6/2004		From Southeast	13:40	2	Southeast Corner of Data Management Bldg.	Excavating	0.006	None	∇	ı	Upwind TAML
12/6/2004	50's Light Drizzle	From Southeast	13:45	E	East of Asphalt Parking Lot	Excavating	0.005	None	∇	,	Downwind TAML
12/6/2004	50's Light Drizzle	From Southeast	13:52	4	North End of PAH Zone	Excavating	0.005	None	∇	, ,	Downwind TAML Upwind TAML

 $^{^{1}}$ - mg/m^{3} - milligrams per cubic meter

²-ppm - parts per million
³-PAML - perimeter air monitoring location
⁴-TAML - temporary air monitoring location
⁵-PID - photoionization detector

					Airborne Particulate	Visual PID ⁵	PID ^{\$}		-
Wind Direction	Time	Loc. #	Description	Activity	(mg/m3) ¹	Dust	Dust (ppm)²	(mdd)	Comment
From Northwest	10:45		Southeast Corner of PAH Zone	Loading & T&D	0	None	∇	ì	Downwind PAML
From Northwest	10:50	2	Southeast Corner of Data Management Bldg.	Loading & T&D	0	None	\triangle	•	Downwind TAML
From Northwest	10:55	е	East of Asphalt Parking Lot	Loading & T&D	0	None	7	•	Upwind TAML
From Northwest	11:00	4	North End of PAH Zone	Loading & T&D	0	None	7	,	Upwind PAML
From Northwest	13:33	-	Southeast Corner of PAH Zone	Loading & T&D	0	None	7	·	Downwind PAML
From Northwest	13:40	7	Southeast Corner of Data Management Bldg.	Loading & T&D	0	None	7	1	Downwind TAML
From Northwest	13:44	3	East of Asphalt Parking Lot	Loading & T&D	0 -	None	∇	i	Upwind TAML
From Northwest	13:48	4	North End of PAH Zone	Loading & T&D	0	None	∇	•	Upwind PAML
From Northwest	14:25-14:40	ı	Southeast of Category 1 Soil Stockpile	Loading & T&D	•	•	,	0	Downwind

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

							Airborne Particulate	Visual PID ⁵	PID^5	Benzene Dreager Tube	
Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	(mg/m3) ¹	Dust (ppm) ²	(ppm) ²	(mdd)	Comment
12/8/2004	40's cloudy	From Southwest	9:25	ın	Southwest Corner of PAH Zone	Exc., Loading, & T&D	0.002	None	0.1	t	Upwind PAML
12/8/2004	40's cloudy	From Southwest	9:34	7	Southeast Corner of Data Mañagement Bldg.	Exc., Loading, & T&D	0.003	None	0.1	,	Upwind TAML
12/8/2004	40's cloudy	From Southwest	9:40	ю	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.005	None	0.1	•	Downwind TAML
12/8/2004	40's cloudy	From Southwest	9:50	9	Northeast Corner of Site	Exc., Loading, & T&D	0.004	None	0	ı	Downwind PAML
12/8/2004	40's cloudy	From Southwest	14:25-14:40		Northeast End of Excavation Area	Exc., Loading, & T&D	1	1	1	0	Downwind
12/8/2004	40's cloudy	From Southwest	14:45	'n	Southwest Corner of PAH Zone	Exc., Loading, & T&D	0.001	None	0.1	1	Upwind PAML
12/8/2004	40's cloudy	From Southwest	14:50	2	Southeast Corner of Data Management Bldg.	Exc., Loading, & T&D	0.003	None	0.1	•	Upwind TAML
12/8/2004	40's cloudy	From Southwest	14:55	ю	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.004	None	0.1	1	Downwind TAML
12/8/2004	12/8/2004 40's cloudy	From Southwest	15:00	9	Northeast Corner of Site	Exc., Loading, & T&D	0.004	None	0	1	Downwind PAML

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location

⁵⁻ PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual PID ⁵ Dust (ppm) ²		Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
			o o		South and Comer of DAH Zone	Hvc Loading & T&D	0.003	None 0.2	0.0		Upwind PAML
12/9/2004		From Southeast	10:07	٠ ,	Southeast Corner of Data Management Bilde.	Exc., Loading, & T&D	0	None	0.1	,	Upwind TAML
12/9/2004	40's partly sunny	From Southeast	10:05	4 E	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.003	None	0.1	,	Downwind TAML
12/9/2004		From Southeast	10:12	4	North End of PAH Zone	Exc., Loading, & T&D	0.005	None	0.1	,	Downwind PAML
12/9/2004		From Southeast	12:56	_	Southeast Corner of PAH Zone	Exc., Loading, & T&D	0.003	None	0.2	,	Upwind PAML
12/9/2004	40's partly sunny	From Southeast	12:58	2	Southeast Corner of Data Management Bldg.	Exc., Loading, & T&D	0.003	None	0.1	1	Upwind TAML
12/9/2004	12/9/2004 40's partly sunny	From Southeast	13:01	ε	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.003	None	0	,	Downwind TAML
12/9/2004	12/9/2004 40's partly sunny	From Southeast	13:04	4	North End of PAH Zone	Exc., Loading, & T&D	0.004	None	0	1	Downwind PAML
12/9/2004	12/9/2004 40's partly sunny	From Southeast	13:50-14:05	•	Northwest End of Excavation Area	Exc., Loading, & T&D	,		•	0	Downwind

^{1 -} mg/m3 - milligrams per cubic meter

²⁻ppm - parts per million
3- PAML - perimeter air monitoring location
4-TAML - temporary air monitoring location
5-PID - photoionization detector

Wind Direction Time Loc.# Description From Northwest Corner of PAH Zone
8:51
From Northwest 8:53 2 Southeast Corner of Data Management Bldg.
From Northwest 8:57 3
From Northwest 9:00 4
From Northwest 11:00-11:30 1
From Northwest 13:05 5 Southwest Corner of PAH Zone
From Northwest 13:07 1
From Northwest 13:11 2 Southeast Corner of Data Management Bldg.
From Northwest 13:18 3

^{1 -} mg/m³ - milligrams per cubic meter

²-ppm - parts per million
³-PAML - perimeter air monitoring location
⁴-TAML - temporary air monitoring location
⁵-PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION
WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE
WAUKEGAN, ILLINOIS

Date	Weather	Wind Direction	Time	Loc.#	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID's (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Соттеп
12/13/2004	20's	From West	9:22	ß	Southwest Corner of PAH Zone	Exc., Loading, & T&D	o	None	0	1	Upwind PAMI.
12/13/2004	20's	From West	9:25	73	Southeast Corner of Data Management Bldg.	Exc., Loading, & T&D	0.001	None	0	1	Downwind TAML
12/13/2004	20's	From West	9:29	ю	East of Asphalt Parking Lot	Exc., Loading, & T&D	0	None	0	1	Downwind TAML
12/13/2004	20's	From West	14:34	7	North End of PAH Zone	Exc., Loading, & T&D	0	None	0	ı	Upwind PAML
12/13/2004	20's	From West	14:39	9	Northeast Corner of Site	Exc., Loading, & T&D	0	None	0	1	Downwind PAML
12/13/2004	20's	From West	14:45	60	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.001	None	0	ł	Downwind TAML
12/13/2004	20's	From West	15:00-15:30	9	Northeast Conner of Site	Exc., Loading, & T&D		•	t	0	Downwind

^{1 -} mg/m³ - milligrams per cubic meter

²⁻ppm - parts per million
3-pAML - perimeter air monitoring location
4-TAML - temporary air monitoring location
5-pID - photoionization detector

Date	Weather	Wind Direction	Time	Foc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual PID ⁵ Dust (ppn) ²		Benzene Dreager Tube (ppm)	Comment
12/14/2004	12 Cold	From West	8:58	+(Southeast Corner of PAH Zone	Exc., Loading, & T&D	0	None	0	ì	Downwind PAML
12/14/2004	12 Cold	From West	9:01	7	Southeast Corner of Data Management Bldg.	Exc., Loading, & T&D	C	None	0	į	Downwind TAML
12/14/2004	12 Cold	From West	90:6	es	East of Asphalt Parking Lot	Exc., Loading, & T&D	0.003	None	0	į	Downwind TAML
12/14/2004	12 Cold	From West	9:10	ę	Northeast Corner of Site	Exc., Loading, & T&D	С	None	0.4	1	Downwind PAML
12/14/2004	12 Cold	From West	9:16	4	North End of FAH Zone	Exc., Loading, & T&D	0.001	None	0.1	ı	Upwind PAML
12/14/2004	12 Cold	From West	12:45-13:00	es	East of Asphalt Parking Lot	Exc., Loading, & T&D	1	•	1	0	Downwind
12/14/2004	12 Cold	From West	14:26	es	East of Asphalt Parking Lot	Exc., Loading, & T&D	0	None	0	ı	Downwind TAML
12/14/2004	12 Cold	From West	14:32	7	North End of PAH Zone	Exc., Loading, & T&D	0.005	None	0.1		Upwind PAML
12/14/2004	12 Cold	From West	14:46	9	Northeast Corner of Site	Exc., Loading, & T&D	0.001	None	0	ì	Downwind PAML

 $^{^{1}}$ - $mg/\,m^{3}$ - milligrams per cubic meter

²-ppm - parts per million
³-PAML - perimeter air monitoring location
⁴-TAML - temporary air monitoring location
⁵-PID - photoionization detector

CRA 019023

Comment	Upwind PAML	Downwind TAME	Downwind TAML	Downwind PAML	Upwind PAML	Downwind	Upwind PAML	Downwind TAML	Upwind PAML Downwind PAML
Benzene Dreager Tube (ppm)	ı	ì	ı	1	ı	O	1		1 1
PID ⁵ (ppm) ²	0.1	0.1	9.0	0.2	0	ł	0	C	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None	None	1	None	None	None None
Airborne Particulate (mg/m3) ¹	0	0	0.001	0	0	1	0	0.001	0.002
Activity	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D Exc., Loading, & T&D
Description	Southeast Corner of PAH Zone	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Northeast Corner of Site	North End of FAH Zone	Near Office Trailers	Southeast Corner of PAH Zone	East of Asphalt Parking Lot	North End of PAH Zone Northeast Corner of Site
Foc. #	₩.	<i>c</i> 1	ю	9	7	·	-	ø,	4 9
Time	9:15	9:20	9:23	9:32	9:37	10:30-10:45	14:35	14:40	14:42 14:45
Wind Direction	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest	From S/Southwest From S/Southwest
Weather	17 Cold	17 Cold	17 Cold	17 Cold	17 Cold	17 Cold	17 Cold	17 Cold	17 Cold 17 Cold
Date	12/15/2004	12/15/2004	12/15/2004	12/15/2004	12/15/2004	12/15/2004	12/15/2004	12/15/2004	12/15/2004 12/15/2004

 $^{^{1}}$ - mg/m 3 - milligrams per cubic meter

² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Соттеп	Crosswind PAML	Down/crosswind TAML	Downwind TAML	Upwind PAML
Benzene Particulate Visual PID ⁵ Dreager Tube (mg/m3) ¹ Dust (ppm) ² (ppm)	,		•	1
РІО ⁵ (ррін) ²	0	0	0	0
Visual Dust	None	None	None	None
Atroome Particulate V (mg/m3) 1 1	0	0	0	0
Activity	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D	Exc., Loading, & T&D
Description	Southeast Corner of PAH Zone -	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	North End of PAH Zone
Loc.#	1	2	6	4
Time	9:46	9:47	9:50	9:53
Wind Direction	From Southwest	From Southwest	From Southwest	From Southwest
Weather	30'8	30'8	30'8	30'8
Date	12/16/2004	12/16/2004	12/16/2004	12/16/2004

 $^{^1}$ - mg/ m^3 - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

⁴-TAML - temporary air monitoring location ⁵-PID - photoionization detector

Comment	Downwind PAMI.	Upwind TAML	Upwind TAML	Upwind PAML	Downwind PAMI,	Upwind TAML	Upwind TAML	Upwind PAMI.
ŭ	Down	Up	ιdη	ιdη	Down	nb	Up	uh
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	1	ı	ŧ	ŧ	1	t	1
PID ⁵ (ppm) ²	0	0	0	0	0	0	0	0
Visual PID ⁵ l Dust (ppm) ²	None	None	None	None	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.008	0.003	0.003	0.004	0.005	0.009	0.008	0.001
Activity	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone	Excavating Southern PAH Zone -
Description	Southwest Corner of PAH Zone	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Northeast Corner of Site	Southwest Corner of PAH Zone	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Northeast Corner of Site
Loc. #	ĸ	2	33	9	rc	2	ю	9
Time	6:07	9:12	9:17	9:23	12:15	12:11	12:07	12:00
Wind Direction	From Northeast	From Northeast	From Northeast	From Northeast	From Northeast	From Northeast	From Northeast	From Northeast
Weather	20-30 Snowy, Windy	20-30 Snowy, Windy From Northeast	20-30 Snowy, Windy	20-30 Snowy, Windy	20-30 Snowy, Windy	1/5/2005 20-30 Snowy, Windy	20-30 Snowy, Windy	20-30 Snowy, Windy From Northeast
Date	1/5/2005	1/5/2005	1/5/2005	1/5/2005	1/5/2005	1/5/2005	1/5/2005	1/5/2005

 $^{^1}$ - mg/ m^3 - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

 $^{^4}$ -TAML, - temporary air monitoring location 5 -PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAMI.
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,	1	ı	ı
PID ^{\$} I	0	0	0	0
Visual Dust	None	None	None	None
Airborne Benzene Particulate Visual PID ⁵ Dreager Tr (mg/m3) ¹ Dust (ppm) ² (ppm)	0.004	0.002	0.002	0.002
Activity	Excavating Southern PAH Zone			
<i>Description</i>	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #		4	-	4
Time	11:30	11:41	13:00	13:05
Wind Direction	From Northwest	From Northwest	From Northwest	From Northwest
Weather	20's Cold	20's Cold	20's Cold	20's Cold
Date	1/6/2005	1/6/2005	1/6/2005	1/6/2005

 $^{^1}$ - mg/ m^3 - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

 $^{^4}$ - TAML. - temporary air monitoring location 5 - PID - photoionization detector

Сониненt	Upwind PAML	Downwind PAML	Upwind PAMI.	Downwind PAML
Denzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	ı	,	1	1
PID ⁵ (ррт) ²	0	0	C	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.022	0.027	0.012	0.016
Activity	Excavating Southern PAH Zone			
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	1	4	-	4
Time	10:48	10:55	13:52	14:04
Wind Direction	From South	From South	From South	From South
Weather	20's Cold	20's Cold	20's Cold	20's Cold
Date	1/7/2005	1/7/2005	1/7/2005	1/7/2005

 $^{^{1}}$ - mg/m^{3} - milligrams per cubic meter

²-ppm - parts per million ³-pAML - perimeter air monitoring location

⁴-TAML - temporary air monitoring location ⁵-PID - photoionization detector

Continent	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAMI.
Atroone Benzene Particulate Visual PID 5 Dreager Tube (mg/m3) 1 Dust (ppm) 2 (ppm)	1	1	1	,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.025	0.021	0.038	0.039
Activity	Excavating Southern PAH Zone			
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zoné	North End of PAH Zone
Loc. #	-	• 4	· +	4
Time	10.06	10:16	13:08	13:14
Wind Direction	T Mostlysonet	From Northwest	From Northwest	From Northwest
Weather	5	30.s	30's	30's
Date		1/10/2005	1/10/2005	1/10/2005

 $^{^1}$ - ${\rm mg/m^3}$ - milligrams per cubic meter

²-ppm - parts per million ³-pAML - perimeter air monitoring location

⁴. TAML, - temporary air monitoring location ⁵. PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)		ı		•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ^{\$} L Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.016	0.019	0.002	0.01
Activity	Excavating Southern PAH Zone			
Description	Southwest Corner of PAH Zone	Northeast Corner of Site	Southwest Corner of PAH Zone	Northeast Corner of Site
Loc. #	٠,	9	Ş	9
Time	9:36	9:44	13:40	13:30
Wind Direction	From Northeast	From Northeast	From Northeast	From Northeast
Weather	30's Light Rain	30's Light Rain	30's Light Rain	30's Light Rain
Date	1/11/05	1/11/05	1/11/05	1/11/05

^{&#}x27;- mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,			
PID ⁵ 1	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.009	0.005	0.008	0.005
Activity	Consolidating Cat. 2 Stockpiles	Consolidating Cat. 2 Stockpiles	Consolidating Cat. 2 Stockpiles	Consolidating Cat. 2 Stockpiles
Description	North End of PÄH Zone	Southeast Corner of Data Management Bldg.	North End of PAH Zone	Southeast Corner of Data Management Bldg.
Loc. #	4	2	4	2
Time	12:00	11:38	13:35	13:31
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	Mostly sunny to partly cloudy, much colder, High 13F	Mostly sunny to partly cloudy, much colder,	Mostly sunny to partly cloudy, much colder,	Mostly sunny to partly cloudy, much colder,
Date	1/14/05	1/14/05	1/14/05	1/14/05

^{1 -} mg/m3 - milligrams per cubic meter

² - ppm - parts per million

¹ PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)		ì		,
PID ^{\$} (ppm) ²	0	0	0	0 .
Visual Dust	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.001	0.003	0.002	0.003
Activity	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	-	4		4
Time	9:56	10:02	13:36	13;41
Wind Direction	From Southeast	From Southeast	From Southeast	From Southeast
Weather	20's	20's	20's	20's
Date	1/21/05	1/21/05	1/21/05	1/21/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Соттепі	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)		,	•	•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	90.0	0.023	0.05	0.024
Activity	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil
Description	Southwest Corner of PAH Zone	₹ Northeast Corner of Site	Southwest Corner of PAH Zone	Northeast Comer of Site
Loc. #	ν.	9	۶.	9
Time	8:39	8:52	12:20	12:23
Wind Direction	From SW	From SW	From SW	From SW
Weather	· Considerable	Considerable Considerable	Coudiness, right 30r Considerable Cloudiness High 36F	Considerable Cloudiness, High 36F
Date	30,30,1	50/57/1	50/57/1	1/25/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Сонтен	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Renzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,		,	,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m.3)	0.002	0.004	O	0
Activity	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil	T&D-Catergory 2 Soil
Description	Southwest Corner of PAH Zone	North End of PAH Zone	Southwest Corner of PAH Zone	North End of PAH Zone
Loc. #	٧٠	4	٧n	4
Time	8:52	9:07	12:45	12:54
Wind Direction	From N	From N	From N	From N
Weather	Variable clouds with snow showers or flurries expected, High 30F			
Date	1/26/05	1/26//05	1/26/05	1/26/05

^{| -} mg/m³ - milligrams per cubic meter
| - ppm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - TAML - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

	i			,
Соттен	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)	•	•		
PID ⁵ (ppm) ²	0	0	c	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.003	0.001	0.004	0.001
Activity	T&D-Catergory 2 Soil and Excavation Activities	T&D-Catergory 2 Soil and Excavation Activities	T&D-Catergory 2 Soil and Excavation Activities	T&D-Catergory 2 Soil and Excavation Activities
Description	Southweast Corner of Data Management Bldg.	Southwest Corner of PAH Zone	Southweast Corner of Data Management Bldg.	Southwest Corner of PAH Zone
Loc. #	2	κ.	2	٠,
Time	11:01	11:06	13:12	13:18
Wind Direction	From E	. From E	From E	From E
Weather	Partly cloudy, High 24F	Partly cloudy, High 24F	Partly cloudy, High 24F	Partly cloudy, High 24F
Date	1/27/05	1/27/05	1/27/05	1/27/05

^{&#}x27;- mg/m' - milligrams per cubic meter 2 - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

^{4.} TAML - temporary air monitoring location

^{5.} PID - photoionization detector

DAILY AIR MUNITURING DATA DOUGH REMEDIAL ACTION
WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE
WAUKEGAN, ILLINOIS

	Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dranoar Tuho	(mdd)	•		•	•
ş çı	(mdd)	0	0	o	0
	Dust	None	None	None	None
Airborne	Particulate (mg/m3) '	0.006	0.008	0.009	0.011
	Activity	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones
1955 a linka mi	Description	Southeast Comer of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
	Loc. #	-	4	-	4
	Time	9:16	9:22	12:53	12:59
	Wind Direction	From SE	From SE	From SE	From SE
	Weather	Clouds and some sun High 29F	Clouds and some sun High 29F	Clouds and some sun High 29F	Clouds and some sun High 29F
	Date .	1/28/05	1/28/05	1//28/05	1/28/05

^{&#}x27;- mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)	ı	,	ı	
PID ⁵ (ppm) ²	o	0	c	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m³) '	0.024	0.032	0.04	0.038
Activity	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones
Description	Southeast Corner of PAĤ Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	-	4	-	4
Time	8:48	8:56	12:28	12:32
Wind Direction	From SSE	From SSE	From SSE	From SSE
Weather	Generally cloudy, High 33F	Generally cloudy, High 33F	Generally cloudy, High 33F	Generally cloudy, High 33F
Date	1/31/05	1/31/05	1/31/05	1/31/05

^{&#}x27;- mg/m³ - milligrams per cubic meter ²- ppm - parts per million ³- PAML - perimeter air monitoring location

⁴- TAML - temporary air monitoring location

⁵- PID - photoionization detector

DAILY AIR MONITORING DATA LUUS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Соттеп	Calm Wind	Calm Wind	Calm Wind	Calm Wind
Benzene Dreager Tube (ppm)	,		•	•
	0	c	c	0
Visual PID ^S Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.013	0.015	0.013	0.014
Activity	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones	T&D-Category 2 Soil and Excavation Activities in Northern PAH Zones
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	,	4	-	4
Time	9:34	9:42	12:58	13:02
Wind Direction	Calm	Calm	Calm	Calm
Weather	Mostly cloudy skies, High 34F	Mostly cloudy skies, High 34F	Mostly cloudy skies. High 34F	Mostly cloudy skies. High 34F
Date	2/1/05	2/1/05	2/1/05	2/1/05

^{&#}x27; mym' - miligrams per cubic meter
2 - ppm - parts per million
3 - pAML - perimeter air monitoring location

 ^{4.} TAML - temporary air monitoring location
 5. PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Соттеп!	Calm Wind	Calm Wind	Calm Wind	Calm Wind
Com	Cal	Cal	Cal	ౌ
Benzene Dreager Tube (ppm)	•			
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.3) ¹	0.042	0.045	0.036	0.032
Activity	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #		4	-	4
Time	8:18	8:23	13:18	13:23
Wind Direction	Calm	Calm	Calm	Calm
Weather	AM Clouds, PM Sun, High 35F	AM Clouds, PM Sun, High 35F	AM Clouds, PM Sun, High 35F	AM Clouds, PM Sun. High 35F
Date	2/2/05	2/2/05	2/2/05	2/2/05

^{1 -} mg/m³ - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location 4 - TAML - temporary air monitoring location

⁵⁻ PID - photoionization detector

DAILY AIR MONITORING DATA LUGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Соттен	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)				•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.036	0.039	0.029	0.032
Activity	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone
Description	Southwest Corner of PAH Zone	Northeast Comer of Site	Southwest Corner of PAH Zone	Northeast Corner of Site
Loc. #	ď	9	80	9
Time	10:45	10:58	13:11	13:05
Wind Direction	From Southwest	From Southwest	From Southwest	From Southwest
Weather	Mostly Sunny, High	Mostly Sunny. High 38F	Mostly Sunny, High 38F	Mostly Sunny, High 38F
Date	2/3/05	2/3/05	2/3/05	2/3/05

^{| -} mg/m³ - milligrams per cubic meter
| - ppm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - PiD - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)		•	•	•
PID ⁵ (ppm) ²	0	0	0	c
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.139	0.135	0.075	0.068
Activity	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone	T&D-CAT 2 Soil and Excavation Activities in the Southern PAH Zone
Description	Southwest Corner of PAH Zone	Northeast Comer of Site	Southwest Corner of PAH Zone	Northeast Corner of Site
Loc. #	ĸ	9	۸.	9
Time	8:17	8:28	12:38	12:46
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	Mostly sunny, High 44F	Mostly sunny, High 44F	Mostly sunny, High 44F	Mostly sunny, High 44F
Date	2/4/05	2/4/05	2/4/05	2/4/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

⁴. TAML - temporary air monitoring location ⁵. PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Upwind TAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	•
PID ⁵ (ppm) ²	0	0
Visual Dust	None	None
Airborne Particulate (mg/m3) ¹	0.074	0.089
Activity	T&D-CAT 2 Soil	T&D-CAT 2 Soil
Description	Southeast Corner of Data Management Bldg.	Southwest Corner of PAH Zone
Loc. #	2	ď
Time Loc.#	8:17	8:25
Wind Direction	From E	From E
Weather	Light rain and drizzle likely, High 42F	Light rain and drizzle likely, High 42F
Date	2/7/05	2/7/05

 $^{^1}$ - mg/m^3 - milligrams per cubic meter 2 - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Соттепі	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube ? (ppm)	1			,
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m3) ¹	0.005	0.003	0.003	0.004
Activity	Breaking concrete	Breaking concrete	Breaking concrete	Breaking concrete
Description	Northeast Corner of Site	Southwest Corner of PAH Zone	Northeast Corner of Site	Southwest Corner of PAH Zone
Loc. #	9	κ.	, v	v
Time	9;40	9:49	12:39	12:46
Wind Direction	From NNE	From NNE	From NNE	From NNE
Weather	Cloudy, High 32F	Cloudy, High 32F	Cloudy, High 32F	Cloudy, High 32F
Date	2/8/05	2/8/05	2/8/05	2/8/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million

³⁻ PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Burney &

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)	•			•
PID ⁵ (ppm) ²	0	o	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airhorne Particulate (mg/m.3) ¹	9000	0.008	0.009	0.011
Activity	Breaking concrete and excavation activites in southern PAH zone and northern PAH Zones	Breaking concrete and excavation activities in southern PAH zone and northern PAH Zones	Breaking concrete and excavation activities in southern PAH zone and northern PAH Zones	Breaking concrete and excavation activities in southern PAH zone and northern PAH Zones
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	***	4		4
Time	10:10	10:16	12:58	13:04
Wind Direction	From NW	From NW	From NW	From NW
Weather	AM Snow, PM Cloudy Skies, High 28F	AM Snow, PM Cloudy Skies, High 28F	AM Snow, PM Cloudy Skies, High 28F	AM Snow, PM Cloudy Skies, High 28F
Date	2/9/05	2/9/05	2/9/05	2/9/05

^{1 -} mg/m² - milligrams per cubic meter 2 - ppm - parts per million 3 - pAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)				
PID ⁵ (ppm) ²	0	0	c	0
Visual Dust (None	Моне	None	0.011 · None
Airborne Particulate (mg/m.3) ¹	0.013	0.014	0.014	0.011
Activity	Excavation activities in northern PAH Zones			
Description	ૂં Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc. #	-	4	-	4
Time	8:56	9:01	12:53	13:00
Wind Direction	From NW	From NW	From NW	From NW
Weather	Mostly sunny, High 30F	Mostly sunny, High 30F	Mostly sunny, High 30F	Mostly sunny, High 30F
Date	2/10/05	2/10/05	2/10/05	2/10/05

^{1 -} mg/m³ - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

⁴⁻ TAML - temporary air monitoring location

⁵⁻ PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)	. 00		Do	
	0	• 0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) '	0.033	0.036	0.014	0.049
Activity	Excavation activities in northern PAH Zones			
Description	چ Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
Loc #	—	4	-	4
Time	9:25	9:30	14:26	14:31
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	Partly cloudy, High 36F	Partly cloudy, High 36F	Partly cloudy, High 36F	Partly cloudy, High 36F
Date	2/11/05	2/11/05	2/11/05	2/11/05

^{&#}x27; - mg/m³ - milligrams per cubic meter 2 - ppm - parts per million

³⁻ PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)		,	1	
	0	o	o	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.3) ¹	0.011	0.052	0.012	50'0
Activity	Excavation activities in northern Arsenic Zone			
Description	Southwest Corner of PAH Zone	Southeast Comer of Data Management Bldg.	Southwest Corner of PAH Zone	Southeast Comer of Data Management Bldg.
Loc. #	۸.	2	κ,	2
Time	11:27	11:31	14:33	14:37
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	AM Scattered snow flurries, PM partly cloudy, High 27F			
Date	2/17/05	2/17/05	2/17/05	2/17/05

⁻ mg/m² - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location

⁴- TAML - temporary air monitoring location ⁵- PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)		•		
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust (None	None	None	None
Alrborne Particulate (mg/m3) ¹	0.001	0.001	0.004	0.082
Activity	Excavation activities in Arsenic Zone and T&D-CAT 2 Soil	Excavation activities in Arsenic Zone and T&D-CAT 2 Soil	Excavation activities in Arsenic Zone and T&D-CAT 2 Soil	Excavation activities in Arsenic Zone and T&D-CAT 2 Soil
Description	Southwest Corner of PAR Zone	Southeast Corner of Data Management Bldg.	Southwest Corner of PAH Zone	Southeast Corner of Data Management Bldg.
Loc. #	ĸ	2	νή	7
Time	9;43	9:46	14:00	14:03
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	Sunny, Cold, High 23F	Sunny, Cold, High 23F	Sunny, Cold, High 23F	2/18/05 Sunny, Cold, High 23F
Date	2/18/05	2/18/05	2/18/05	2/18/05

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

		2	ـ ـا	ML
Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)	ı		•	•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.014	0.013	0.011	0.011
Activity	Excavation activities in Southern PAH Zone and T&D-CAT 2 Soil	Excavation activities in Southern-PAH Zone and T&D-CAT 2 Soil	Excavation activities in Southern PAH Zone and T&D-CAT 2 Soil	Excavation activities in Southern PAH Zone and T&D-CAT 2 Soil
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	Southeast Corner of Data Management Bldg.
Loc. #	****	4	-	\$
Time	10:14	10:24	12:48	12:56
Wind Direction	From NW	From NW	From NW	From NW
Weather	Cloudy, High 35F	Cloudy High 35F	Cloudy, High 35F	Cloudy, High 35F
Date	50,1276		CD/17/7	2/21/05

^{1 -} mg/m² - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

^{4.} TAML - temporary air monitoring location

^{5.} PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)				
PID ⁵ (ppm) ²	0	0	0	0
Visual	None	None	None	None
Airborne Particulate (mg/m3) '	0.009	0.009	0.014	0.005
	AT 1 Soil and Sidg. Demo	CAT 1 Soil and sldg. Demo	CAT I Soil and Sidg. Demo	CAT I Soil and 31dg. Demo
Activity	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo
Description	हैं Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Corner of PAH Zone	North End of PAH Zone
I.nc. #		4	-	4
Time	9:57	10:01	13:46	13:52
Wind Direction	From NW	From NW	From NW	From NW
Weather	AM Clouds, PM Sun, High 34F			
Date	2/22/05	2/22/05	2/22/05	2/22/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Соттеп	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tuhe (ppm)	1		ν.,	•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (fipm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.019	0.023	0.025	0.035
	CAT 1 Soil and 31dg. Demo	CAT I Soil and 31dg. Demo	CAT 1 Soil and 31dg. Demo	CAT 1 Soil and 31dg. Demo
Activity	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bl dg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo
Description	Southeast Corner of PAH Zone	North End of PAH Zone	Southeast Comer of PAH Zone	North End of PAH Zone
Loc. #	-	4	-	4
Time	10.58	11:05	12:36	12:46
Wind Direction	From NW	From NW	From NW	From NW
Weather	Sunhine with a few clouds, High 33F	Sunhine with a few clouds, High 33F	Sunhine with a few clouds, High 33F	Sunhine with a few clouds, High 33F
Date	2/23/05	2/23/05	2/23/05	2/23/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PiD - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)		•	,	•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ^{\$} Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) '	0.011	0.018	0.022	0.018
Activity	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT I Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo
pescription	Southwest Corner of PAH Zone	North End of PAH Zone	Southwest Corner of PAH Zone	North End of PAH Zone
Loc. #	ν.	4	٧٠	4
Time	9:46	9:53	12:53	13:02
Wind Direction	From N	From N	From N	From N
Weather	Variably cloudy skies, High 33F	Variably cloudy skies, High 33F	Variably cloudy skies. High 33F	Variably cloudy skies, High 33F
Date	2/24/05	2/24/05	2/24/05	2/24/05

^{&#}x27;- mg/m' - milligrams per cubic meter 2 - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

⁴- TAML - temporary air monitoring location ⁵- PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)	•	,	,	•
PID ⁵ (ppm) ²	0	c	0	0
Visual Dust	None	None	None	None
Airhorne Particulate (mg/m.3) ¹	0.056	0.064	0.041	0.039
Activity	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT I Soil and Data Mngmt. Bldg. Demo	T&D-CAT 2 and CAT 1 Soil and Data Mngmt. Bldg. Demo
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	2	۰	2	\$
Time	9:29	9:32	12:53	12:56
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	Mostly cloudy, High 37F	Mostly cloudy, High 37F	Mostly cloudy, High 37F	Mostly cloudy, High 37F
Date	2/25/05	2/25/05	2/25/05	2/25/05

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML	
Benzene Dreager Tube (ppm)		•	ı	•	
PID ⁵ (ppm) ²	o ,	0	0	0	
Visual PID ⁵ Dust (ppm) ²	None	None	None	None	
Airborne Particulate (mg/m.3) '	0.038	0.041	0.029	0.031	
Activity	T&D-CAT I Soil and Data Mngmt. Bldg. Demo	T&D-CAT 1 Soil and Data Mngmt. Bldg. Demo	T&D-CAT I Soil and Data Mngmt. Bldg. Demo	T&D-CAT I Soil and Data Mngmt. Bldg. Demo	
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	
Loc. #		4	-	4	
Time	11:29	11:35	12:37	12:44	
Wind Direction	From NW	From NW	From NW	From NW	
Wanter	AM, Flurries and snow showers PM, scattered flurries and snow	showers AM, Flurries and snow showers PM, scattered flurries and snow showers	AM, Flurries and snow showers PM, scattered flurries and snow	AM, Flurries and snow showers PM, scattered flurries and snow	showers
j	2/28/05	2/28/05	2/28/05	2/28/05	

^{1 -} mg/m² - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tuhe (ppm)	•	•	•	•
PID ⁵ (ppm) ²	0	0	0	c
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.009	0.003	0.001	0.005
Activity	T&D-CAT 1 Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo	T&D-CAT 1 Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo	T&D-CAT 1 Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo	T&D-CAT I Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
Loc. #	-	4	-	4
Time	9:44	9:51	12:52	12:58
Wind Direction	From NW	From NW	From NW	From NW
Weather	Mostly cloudy, 27F	Mostly cloudy, 27F	Mostly cloudy, 27F	Mostly cloudy, 27F
Date	3/1/05	3/1/05	3/1/05	3/1/05

^{1 -} mg/m² - milligrams per cubic meter 2 - ppm - parts per million 3 - pAML - perimeter air monitoring location

⁴. TAML - temporary air monitoring location ³. PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)		•	•	ŧ
	0	0	o	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.009	0.002	0.005	0.002
Activity	T&D-CAT I Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo	T&D-CAT I Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bidg. Demo	T&D-CAT I Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo	T&D-CAT 1 Soil, Excavation activities in Southern PAH Zone, and Data Mngmt. Bldg. Demo
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
Loc. #		4	-	4
Time	9:51	9:57	12:38	12:45
Wind Direction	From NNW	From NNW	From NNW	From NNW
Weather	Sunshine, 26F	Sunshine, 26F	Sunshine, 26F	Sunshine, 26F
Date	3/2/05	3/2/05	3/2/05	3/2/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

		•			
Comment		Downwind TAML	Upwind PAML	Downwind TAML	Upwind PAML
Benzene Dreager Tube (ppm)			,	•	
PID ⁵		0	0	0	0
Visual PID ⁵ Dust (19911) ²		None	None	None	None
Airborne Particulate	(/9)	900.0	0.006	0.007	0.012
	Activity	T&D-CAT I Soil, Excavation activities in Arsenic Zone, and Data Mngmt. Bldg. Demo	T&D-CAT I Soil, Excavation activities in Arsenic Zone, and Data Mngmt. Bldg. Demo	T&D-CAT I Soil, Excavation activities in Arsenic Zone, and Data Mngmt. Bldg. Demo	T&D-CAT 1 Soil, Excavation activities in Arsenic Zone, and Data Mngmt. Bldg. Demo
	Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
	Loc. #		vs.	2	۸.
	Time	10:48	10:51	12:41	12:44
	Wind Direction	From W	From W	From W	From W
	Weather	Sunny to partly cloudy, High 31F	Sunny to partly cloudy, High 31F	Sunny to partly cloudy, High 31F	Sunny to partly cloudy, High 31F
	Date	3/3/05	3/3/05	3/3/05	3/3/05

^{&#}x27;- mg/m' - milligrams per cubic meter 2 - ppm - parts per million 3 - pAML - perimeter air monitoring location

⁴. TAML - temporary air monitoring location ⁵. PID - photoionization detector

Comment	Upwind TAML	Downwnd TAML	Upwind TAML	Downwind TAML
Benzene Dreager Tube (ppm)			,	,
	0	0	0	o
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.037	0.028	0.031	0.052
Activity	Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo
Description	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot
Loc. #	2	æ	2	æ
Time	8:41	8:45	12:40	12:43
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	PM rain/snow showers	PM rain/snow showers	PM rain/snow showers	PM rain/snow showers
Date	3/4/05	3/4/05	3/4/05	3/4/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

⁴. TAML - temporary air monitoring location ⁵. PID - photoionization detector

2.	₹	₹	₹ F
Downwind PA	Upwind PA!	Downwind PA	Upwind PAML
•		•	,
0	o	o	o
None	None	None	None
0.069	0.029	0.005	0.007
Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo	Data Mngmt. Bldg. Demo
Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
-	4	-	4
9:50	9:57	12:35	12:40
From NW	From NW	From NW	From NW
Weanner windy with snow showers developing,	high 46F windy with snow showers developing,	windy with snow showers developing.	windy with snow showers developing, high 46F
<i>Date</i> 3/7/05	3/7/05	3/7/05	3/7/05
	weather windy with snow From NW 9:50 1 Southeast Perimeter of Southern PAH Zone Data Mngmt. Bldg. Demo 0.069 None 0	windy with snow From NW 9:50 1 Southeast Perimeter of Southern PAH Zone Data Mngmt. Bldg. Demo 0.069 showers developing. From NW 9:57 4 Northwest Perimeter of Northern PAH Zone Data Mngmt. Bldg. Demo 0.029 showers developing. From NW 9:57 4 Northwest Perimeter of Northern PAH Zone Data Mngmt. Bldg. Demo 0.029 showers developing.	windy with snow showers developing. windy with snow 12:35 I Southeast Perimeter of Southern PAH Zone Data Mngmt. Bldg. Demo 0.005 None 0 - high 46F high 46F high 46F

¹⁻ mg/m³ - milligrams per cubic meter 2- ppm - parts per million 3- PAML - perimeter air monitoring location 4- TAML - temporary air monitoring location 5- PID - photoionization detector

		,		
Соттеп	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Dreager Tube (ppm)	•	•	•	
PID³ (ppm)²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) '	0.006	0.009	0.085	0.007
Activity	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH \tilde{Z} one	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
Loc. #	-	4		4
Time	10:28	96:01	12:55	12:59
Wind Direction	From NW	From NW	From NW	From NW
Washer	Plentiful sunshine,	High 29F High 29F Plentiful sunshine, High 70F	Plentiful sunshine, High 29F	Plentiful sunshine, High 29F
	Date	3/8/05	3/8/05	3/8/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - plD - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

	Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene	Dreager Tube (ppm)	•	•	•	
•	PID ³	0	o	0	0
	Visual PID ³ Dust (ppm) ²	None	None	None	None
Airborne	Particulate (mg/m.³) '	0.059	0.022	0.13	0.023
	Activity	Data Mngmt, Bldg, Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone	Data Mngmt. Bldg. Demo and Excavation Activities in Arsenic Zone
	Description	Southeast Perimeter of Southern PAH Zone	_ Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
	Loc. #	-	4	-	4
	Time	9:52	10:00	12:53	13:00
	Wind Direction	From NW	From NW	From NW	From NW
	Weather	Mostly sunny, cold. High 29F	Mostly sunny, cold. High 29F	Mostly sunny, cold. High 29F	Mostly sunny, cold. High 29F
	Ş	3/9/05	3/9/05	3/9/05	3/9/05

^{| -} mg/m³ - milligrams per cubic meter | - ppm - parts per million | - PAML - perimeter air monitoring location

⁴. TAML - temporary air monitoring location ⁵. PID - photoionization detector

Соттеп	Upwind TAML	Downwind TAML	Upwind TAML	Downwind TAML
Benzene Dreager Tube (ppm)		•	•	1
PID³ (ppm)²	0	0	0	c
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.045	0.068	0.023	0.051
Activity	Data Mngmnt. Bldg. Demo	Data Mngmnt, Bldg, Demo	Data Mngmnt. Bldg. Demo	Data Mngmnt. Bldg. Demo
Description	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot
Loc. #	8	ю	7	ю
Time	10:58	11:00	12:35	12:39
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	Light snow, 33F	Light snow, 33F	Light snow, 33F	Light snow, 33F
Date	3/10/05	3/10/05	3/10/05	3/10/05

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location

⁴- TAML - temporary air monitoring location ³- PID - photoionization detector

nt	TAML	PAML	d TAML	Upwind PAML
Comment	Downwind TAML	Upwind PAML	Downwind TAML	Upwind
Benzene Dreager Tube (ppm)	•	•	. •	
PID ⁵ (ppm) ²	0	0	o	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.008	0.012	0.01	0.01
Activity	Data Mngmmt. Bldg. Demo	Data Mngmnt. Bldg. Demo	Data Mngmnt. Bldg. Demo	Data Mngmut. Bldg. Demo
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	2	v o	2	ν,
Time	11:22	11:25	12:42	12:45
Wind Direction	From WNW	From WNW	From WNW	From WNW
Weather	mostly cloudy with snow fluries and snow	snowers, ringir 501 mostly cloudy with snow flurries and snow showers, High 30F	mostly cloudy with snow flurries and snow showers, High 30F	mostly cloudy with snow flurries and snow showers, High 30F
į	1)ate 3/11/05	3/11/05	3/11/05	3/11/05

¹ - mg/m.³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Соттеп	Downwind TAML	Upwind PAML	Downwind TAML	Upwind PAML
Benzene Dreager Tuhe (ppm)	• .	•		1
PID' (ppm) ²	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.3) ¹	0.011	0.006	0.018	0.019
Activity	T&D CAT 2-Soil and Data Mngmnt. Bldg. Demo	T&D CAT 2-Soil and Data Mngmnt. Bldg. Demo	T&D CAT 2-Soil and Data Magmut. Bldg. Demo	T&D CAT 2-Soil and Data Mngmnt. Bldg. Demo
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc #	2	٧٠	7	٧٠
Time	11:07	11:10	14:03	14:06
wind Direction	From W	From W	From W	From W
: :	Weather Partly cloudy, High 36F	Partly cloudy, High 36F	Partly cloudy, High 36F	Partly cloudy, High 36F
	Date 3/14/05	3/14/05	3/14/05	3/14/05

⁻ mg/m³ - milligrams per cubic meter ² - ppm - parts per million

^{4.} TAML - temporary air monitoring location ³ - PAML - perimeter air monitoring location

⁵⁻ PID - photoionization detector

Comment	Downwind TAML	Upwind PAML	Downwind TAML	Upwind PAML
Bentene Dreager Tube (ppm)			•	
PID ⁵ (ppm) ²	o	0	0	0
Visual PID ^S Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.³) '	0.007	0.011	0.013	0.014
Activity	T&D CAT 2-Soil and Data Mngmut. Bldg. Demo	T&D CAT 2-Soil and Data Mngmnt. Bldg. Demo	T&D CAT 2-Soil and Data Magmat. Bldg. Demo	T&D CAT 2-Soil and Data Mngmnt, Bldg, Demo
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	v n	2	٠
Time	11:12	11:15	13:12	13:14
Wind Direction	From W	From W	From W	From W
Weather	Partly cloudy, High 37F	Partly cloudy, High 37F	Partly cloudy, High 37F	Partly cloudy, High 37F
Date	3/15/05	3/15/05	3/15/05	3/15/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Benzene Dreager Tube (ppm)	•			* 1
	0	0	0	٥
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.021	. 0.03	0.018	0.029
Activity	T&D CAT 2-Soil and Data Mngmnt. Bldg. Demo			
Description	Southwest Perimeter of Southern PAH Zone	- East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	'n	ю	٧٠	æ
Time	11:31	11:36	12:40	12:45
Wind Direction	From SW	From SW	From SW	From SW
Weather	Partly cloudy, 44F	Partly cloudy, 44F	Partly cloudy, 44F	Partly cloudy, 44F
Date	3/16/05	3/16/05	3/16/05	3/16/05

⁻ ng/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location

J- TAML - temporary air monitoring location
 PID - photoionization detector

	Соттеп	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube	(mdd)	•	•	•	,
PID ⁵	(bpm) ²	0	0	0	0
Visual PID ⁵	Dust	None	None	None	None
Airborne	(mg/m3) ¹	0.019	0.018	0.017	0.019
	Activity	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D
	Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bildg.	Southwest Perimeter of Southern PAH Zone
	Loc. #	2	ν,	2	ĸ.
	Time	11:40	11:45	13:15	13 20
	Wind Direction	From E	From E	From E	From E
	Weather	Snow, High 36F	Snow, High 36F	Snow, High 36F	Snow, High 36F
	Date	3/17/05	3/17/05	3/17/05	3/17/05

^{&#}x27;- mg/m' - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

⁴- TAML - temporary air monitoring location ⁵- PID - photoionization detector

DAILY AIR MUNITONING THE REMEDIAL ACTION REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)		•		1
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ Dusi (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.³) ¹	0.05	0.068	0.054	0.062
Activity	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil	Excavation Activities in Bombardie Parking Lot and T&D CAT 2-Soil
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	٧n	2	٧n
Time	11:43	11:48	12:57	13:03
Wind Direction	From ESE	From ESE	From ESE	From ESE
	weather Mostly cloudy, 43F	Mostly cloudy, 43F	Mostly cloudy, 43F	Mostly cloudy, 43F
	Date 3/18/05	3/18/05	3/18/05	3/18/05

^{1 -} mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
Benzene Dreager Tuhe (ppm)		•	•	•
PID ⁵ (ppm) ²	0	0	0	0
Visual	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.002	0.048	0.001	0.076
Activity	T&D CAT 2-Soil and Excavation Activities in Northern PAH Zone	T&D CAT 2-Soil and Excavation Activities in Northern PAH Zone	T&D CAT 2-Soil and Excavation Activities in Northern PAH Zone	T&D CAT 2-Soil and Excavation Activities in Northern PAH Zone
Description	Southwest Perimeter of Southern PAH Zone	- East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	vs.	m	۶	٣
Time	11:54	11:59	14:47	14:52
Wind Direction	From NE	From NE	From NE	From NE
Weather	Partly Cloudy, 36F	Partly Cloudy, 36F	Partly Cloudy, 36F	Partly Cloudy, 36F
Date	3/21/05	3/21/05	3/21/05	3/21/05

^{&#}x27;- mg/m³ - milligrams per cubic meter
2 - ppm - parts per million

^{3.} PAML - perimeter air monitoring location

TAML - temporary air monitoring location
 PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
Benzene Dreager Tube (ppm)			•	•
	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m.3) '	0.022	0.027	0.01	0.01
Activity	T&D CAT 2-Soil and Excavation Activities in Arsenic Zone	T&D CAT 2-Soil and Excavation Activities in Arsenic Zone	T&D CAT 2-Soil and Excavation Activities in Arsenic Zone	T&D CAT 2-Soil and Excavation Activities in Arsenic Zone
Description	Southwest Perimeter of Southern PAH Zone	- East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	٧٠	, m	50	es es
Time	11:50	11:55	14:10	14:15
Wind Direction	From NE	From NE	From NE	From NE
Weather	Partly Cloudy, 39F	Partly Cloudy, 39F	Partly Cloudy, 39F	Partly Cloudy, 39F
2	3/22/05	3/22/05	3/22/05	3/22/05

^{1 -} mg/m3 - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location

TAML - temporary air monitoring location
 PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)				,
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.02	0.021	0.09	0.012
Activity	T&D CAT-2 Soil and Backfilling Activities in Bombardier Parking Lot	T&D CAT-2 Soil and Backfilling Activities in Bombardier Parking Lot	T&D CAT-2 Soil and Backfilling Activities in Bombardier Parking Lot	T&D CAT-2 Soil and Backfilling Activities in Bombardier Parking Lot
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
Loc. #	-	4		4
Time	9:04	9:13	12:50	12:56
Wind Direction	From SSE	From SSE	From SSE	From SSE
Weather	Strong Storms, High 66F	Strong Storms, High 66F	Strong Storms, High 66F	Strong Storms, High 66F
Date	3/30/05	3/30/05	3/30/05	3/30/05

^{| -} mg/m³ - milligrams per cubic meter
| - ppm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ^t	Visual PID ⁵ L Dust (ppm) ²	PID ⁵ (ppm) ²	Benzene Dreager Tube (ppm)	Comment
Fro	From W	8:46	2	Southeast Corner of Data Management Bldg.	T&D CAT-2 Soil	0.01	None	0		Downwind TAML
Fron	From W	8:51	٧٠	Southwest Perimeter of Southern PAH Zone	T&D CAT-2 Soil	0.013	None	0	·	Upwind PAML
Froi	From W	13:13	6	Southeast Corner of Data Management Bidg.	T&D CAT-2 Soil	0.006	None	0	1	Downwind TAML
From W	» w	13:15	٠,	Southwest Perimeter of Southem PAH Zone	T&D CAT-2 Soil	0.012	None	0		Upwind PAML

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
4/1/05	Mostly Cloudy, High 54F	From NNE	12:17	æ	East of Asphalt Parking Lot	T&D CAT-2 Soil	0.011	None	0	,	Upwind TAML
4/1/05	Mostly Cloudy, High 54F	From NNE	12:20	7	Southeast Corner of Data Management Bldg.	T&D CAT-2 Soil	9000	None	0	,	Downwind TAML
4/1/05	Mostly Cloudy, High 54F	From NNE	12:36	æ	East of Asphalt Parking Lot	T&D CAT-2 Soil	0.029	None	0		Upwind TAML
4/1/05	Mostly Cloudy, High 54F	From NNE	12:32	2	Southeast Corner of Data Management Bidg.	T&D CAT-2 Soil	0.013	None	0	ı	Downwind TAML

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Airborne Benzene Particulate Visual PID ⁵ Dreager Tube (mg/m3) ¹ Dust (ppm) ² (ppm) Comment	'n	0.008 None 0 - Downwind PAML	
Activity	T&D CAT-2 Soil	T&D CAT-2 Soil	T&D CAT-2 Soil
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.
Loc. #	77	٧٦	2
Time	10:12	10:14	13:59
Wind Direction	From E	From E	From E
Weather	Sunny, High 61F	Sunny, High 61F	Sunny, High 61F
Date	4/4/05	4/4/05	4/4/05

⁻ mg/m³ - miligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Соттеп
4/5/05	Mostly Cloudy, High 71F	From S	10:02		Southeast Perimeter of Southern PAH Zone	T&D CAT-2 Soil	0.018	None	0	•	Upwind PAML
4/5/05	Mostly Cloudy, High 71F	From S	10:11	es	East of Asphalt Parking Lot	T&D CAT-2 Soil	0.035	None	0	ı	Downwind TAML
4/5/05	Mostly Cloudy, High 71F	From S	13:08	-	Southeast Perimeter of Southern PAH Zone	T&D CAT-2 Soil	0.046	None	0	,	Upwind PAML
4/5/05	Mostly Cloudy, High 71F	From S	13:13	ю.	East of Asphalt Parking Lot	T&D CAT-2 Soil	0.047	None	0		Downwind TAML

⁻ mg/m³ - milligrams per cubic meter

2 - ppm - parts per million

3 - PAML - perimeter air monitoring location

4 - TAML - temporary air monitoring location

5 - PID - photoionization detector

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Downwind PAML	Upwind PAML	Downwind PAML	Upwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)				
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.023	0.04	0.006	0.02
Activity	T&D CAT-2 Soil	T&D CAT-2 Soil	T&D CAT-2 Soil	T&D CAT-2 Soil
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	٧.	м	ĸ	ю
Time	11:32	11:39	12:46	12:53
Wind Direction	From NNE	From NNE	From NNE	From NNE
Weather	Partly Cloudy, 50F	Partly Cloudy, 50F	Partly Cloudy, 50F	Partly Cloudy, 50F
Date	4/7/05	4/7/05	4/7/05	4/7/05

^{1 -} mg/m3 - milligrams per cubic meter

^{2 -} ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m.3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
	From ENE	10:14	6	Southeast Corner of Data Management Bldg.	T&D CAT-2 Soil	0.016	None	0	t	Upwind TAML
	From ENE	10:17	٧,	Southwest Perimeter of Southern PAH Zone	T&D CAT-2 Soil	00'00	None	0		Downwind PAML
μ.,	From ENE	13:05	7	Southeast Corner of Data Management Bldg.	T&D CAT-2 Soil	600.0	None	0		Upwind TAML
ĹT.	From ENE	13:09	S	Southwest Perimeter of Southern PAH Zone	T&D CAT-2 Soil	0.005	None	0		Downwind PAML

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Соттен
	From ESE	14:10	2	Southeast Corner of Data Management Bldg.	Excavation Activities	0.003	None	0		Upwind TAML
	From ESE	14:13	٠	Southwest Perimeter of Southern PAH Zone	Excavation Activities	0.009	None	0	•	Downwind PAML
) hade	From ESE	14:18	2	Southeast Corner of Data Management Bldg.	Excavation Activities	0.005	None	0		Upwind TAML
124	From ESE	14:15	8	Southwest Perimeter of Southern PAH Zone	Excavation Activities	0.004	None	0		Downwind PAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

ube Comment	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)	ı	•	•	,
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.004	0.008	9000	0.007
Activity	crushing concrete from Data Bldg.	crushing concrete from Data Bldg.	crushing concrete from Data Bldg.	crushing concrete from Data Bldg.
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	· w	7	٧.
Time	12:05	12:10	12:30	12:35
Wind Direction	From E	From E	From E	From E
Weather	Showers, 50F	Showers, 50F	Showers, 50F	Showers, 50F
Date	4/12/05	4/12/05	4/12/05	4/12/05

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Quite a second	East of Asphalt Parking I of	City in a second control of the cont	Green Control of the	Gurran market and a second	Gurran transfer to the second
#	Southwest Perimeter of Southern PAH Zone East of Asphalt Parking Lot	v n	13:32 S Sou	v n	13:32 5

⁻ mg/m³ - milligrams per cubic meter

- ppm - parts per million

- PAML - perimeter air monitoring location

- TAML - temporary air monitoring location

- TAML - perimeter air monitoring location

- PID - photoionization detector

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	,		ı
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.006	0.004	0.013	0.005
Activity	expanding excavations and crushing concrete			
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	٠٠	ю	٠.	ю
Time	10:52	10:56	13:02	13:07
Wind Direction	From NE	From NE	From NE	From NE
Weather	Sunny, 57F	Sunny, 57F	Sunny, 57F	Sunny, 57F
Date	4/14/05	4/14/05	4/14/05	4/14/05

^{1 -} mg/m² - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Соттепі	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)				a a
	0	0	0	0
Visual PID ⁵ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.048	0.011	0.035	0.014
Activity	expanding excavations and crushing concrete			
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	δ.	2	s
Time	11:36	11:39	13:40	13:45
Wind Direction	From ESE	From ESE	From ESE	From ESE
Weather	Sunny, 60F	Sunny, 60F	Sunny, 60F	Sunny, 60F
Date	4/15/05	4/15/05	4/15/05	4/15/05

⁻ mg/m³ - milligrams per cubic meter
- ppm - parts per million
3 - PAML - perimeter air monitoring location
- TAML - temporary air monitoring location
- PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual PID ⁵ Dust (ppm) ²		Benzene Dreager Tube (ppm)	Comment
4/18/05	Sunny, 76F	From SSW	9:40	-	Southeast Perimeter of Southern PAH Zone	expanding excavations and crushing concrete	0.009	None	0	,	Upwind PAML
4/18/05	Sunny, 76F	From SSW	9:44	w	East of Asphalt Parking Lot	expanding excavations and crushing concrete	0.011	None	0		Downwind TAML
4/18/05	Sunny, 76F	From SSW	12:05	-	Southeast Perimeter of Southern PAH Zone	expanding excavations and crushing concrete	0.007	None	0	• 1	Upwind PAML
4/18/05	Sunny, 76F	From SSW	12:08	က	East of Asphalt Parking Lot	expanding excavations and crushing concrete	0.013	None	0	,	Downwind TAML

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,	•	,	,
PID ⁵ (ppm) ²	0	0	0	0
	None	None	None	None
Airborne Particulate (mg/m3) 1	0.054	0.08	0.016	0.099
Activity	Backfilling activities	Backfilling activities	Backfilling activities	Backfilling activities
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	s.	m	8	'n
Time	11:20	11:25	12:55	12:58
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	Partly Cloudy, 75F	Partly Cloudy, 75F	Partly Cloudy, 75F	Partly Cloudy, 75F
Date	4/19/05	4/19/05	4/19/05	4/19/05

⁻ mg/m³ - milligrams per cubic meter ² - ppm - parts per million

³⁻ PAML - perimeter air monitoring location 4- TAML - temporary air monitoring location 5- PID - photoionization detector

Time Loc. # Description Activity Activity	Loc. # Description Activity (mg/m3) 1 2 Southeast Corner of Data Management Bldg. Backfilling activities 0.012 3 East of Asphalt Parking Lot Backfilling activities 0.02
Loc. # Description 2 Southeast Corner of Data Management Bldg. 3 East of Asphalt Parking Lot	Time Loc. # Description 12:50 2 Southeast Corner of Data Management Bldg. 12:53 3 East of Asphalt Parking Lot
Loc. # 2	Time Loc. # 12:50 2 12:53 3
	Time 12:50 12:53
Time 12:50 12:53	
	Wind Direction From N From N
Weather Few Showers, 61F Few Showers, 61F	

^{| -} mg/m³ - milligrams per cubic meter
| - ppm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - FAML - perimeter air monitoring location
| - PID - photoionization detector

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
Benzene Dreager Tube (ppm)			,	
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.003	0.018	0.004	0.009
Activity	expanding excavations, crushing concrete, and backfilling			
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Z one
Loc. #	7	رم د	7	8
Time	11:28	11:25	13:28	13:25
Wind Direction	From ENE	From ENE	From ENE	From ENE
Weather	Sunny, 52F	Sunny, 52F	Sunny, 52F	Sunny, 52F
Date	4/21/05	4/21/05	4/21/05	4/21/05

⁻ mg/m³ - milligrams per cubic meter
2- ppm - parts per million
3- PAML - perimeter air monitoring location
4- TAML - temporary air monitoring location
5- PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
4/25/05	Partly Cloudy, 62F	From WSW	11:05	2	Southeast Corner of Data Management Bldg.	T&D CAT 2 Soil	0.002	None	0	•	Downwind TAML
4/25/05	Partly Cloudy, 62F	From WSW	11:08	vo.	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.008	None	0	•	Upwind PAML
4/25/05	Partly Cloudy, 62F	From WSW	13:42	7	Southeast Comer of Data Management Bldg.	T&D CAT 2 Soil	0.027	None	0		Downwind TAML
4/25/05	Partly Cloudy, 62F	From WSW	13:45	۸۷	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.002	None	0	•	Upwind PAML

⁻ mg/m² - milligrams per cubic meter

- ppm - parts per million

- PAML - perimeter air monitoring location

- TAML - temporary air monitoring location

- PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Dreager Tube (ppm)	Comment
4/26/05	Mostly Cloudy, 52F	From W	11:53	74	Southeast Corner of Data Management Bldg.	T&D CAT 2 Soil, Backfilling	0.005	None	0	•	Downwind TAML
4/26/05	Mostly Cloudy, 52F	From W	11:56	\$	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil, Backfilling	0.01	None	0		Upwind PAML
4/26/05	Mostly Cloudy, 52F	From W	13:49	7	Southeast Comer of Data Management Bldg.	T&D CAT 2 Soil, Backfilling	0.01	None	0	,	Downwind TAML
4/26/05	Mostly Cloudy, 52F	From W	13:52	'n	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil, Backfilling	0.004	None	0		Upwind PAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Dreager Tube (ppm)	Соттеп
4/27/05	Cloudy, 52F	From W	11:23	7	Southeast Corner of Data Management Bldg.	T&D CAT 2 Soil, Backfilling	0.024	None	0		Downwind TAML
4/27/05	Cloudy, 52F	From W	11:26	85	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil, Backfilling	0.015	None	0	•	Upwind PAML
4/27/05	Cloudy, 52F	From W	13:15	2	Southeast Comer of Data Management Bldg.	T&D CAT 2 Soil, Backfilling	0.043	None	0	,	Downwind TAML
4/27/05	Cloudy, 52F	From W	13:18	'n	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil, Backfilling	0.009	None	0		Upwind PAML

mg/m³ - milligrams per cubic meter
 ppm - parts per million
 PAML - perimeter air monitoring location
 TAML - temporary air monitoring location
 PID - photoionization detector

	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
Mostly	Mostly Cloudy, 51F	From SSW	10:50	٧٠	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.009	None	0		Upwind PAML
Mostly	Mostly Cloudy, 51F	From SSW	10:56	m ·	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.026	None	0		Downwind TAML
Mostly	Mostly Cloudy, 51F	From SSW	13:58	s.	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.024	None	0	ı	Upwind PAML
Most	Mostly Cloudy, 51F	From SSW	14:04	т	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.031	None	0	ı	Downwind TAML

ng/m³ - milligrams per cubic meter
 ppm - parts per million
 PAML - perimeter air monitoring location
 TAML - temporary air monitoring location
 PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Dreager Tube (ppm)	Comment
4/29/05	Mostly Cloudy, 53F	From ENE	10:59	6	Southeast Corner of Data Management Bldg.	Backfilling activities	0.013	None	0	ı	Upwind TAML
4/29/05	Mostly Cloudy, 53F	From ENE	11:02	٧٠	Southwest Perimeter of Southern PAH Zone	Backfilling activities	0.01	None	0		Downwind PAML
4/29/05	Mostly Cloudy, 53F	From ENE	13:20	7	Southeast Comer of Data Management Bldg.	Backfilling activities	0.017	None	0		Upwind TAML
4/29/05	Mostly Cloudy, 53F	From ENE	13:22	\$	Southwest Perimeter of Southern PAH Zone	Backfilling activities	0.013	None	0		Downwind PAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
5/2/05	Mostly Cloudy, 47F	From WNW	12:46	-	Southeast Perimeter of Southern PAH Zone	Backfilling activities	0.011	None			Downwind PAML
5/2/05	Mostly Cloudy, 47F	From WNW	12:56	4	Northwest Perimeter of Northern PAH Zone	Backfilling activities	0.016	None	0		Upwind PAML
5/2/05	Mostly Cloudy, 47F	From WNW	13:55	gent	Southeast Perimeter of Southern PAH Zone	Backfilling activities	0.012	None	0	•	Downwind PAML
5/2/05	Mostly Cloudy, 47F	From WNW	14:00	4	Northwest Perimeter of Northern PAH Zone	Backfilling activities	0.015	None	0	1	Upwind PAML

 $^{^1}$ - mg/m^3 - milligrams per cubic meter 2 - ppm - parts per million

³⁻ PAML - perimeter air monitoring location 4- TAML - temporary air monitoring location 5- PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual PID ⁵ Dust (ppm) ²	PID ⁵ (ppm) ²	Benzene Dreager Tube (ppm)	Comment
From WNW	WW	11:22	2	Southeast Comer of Data Management Bidg.	Backfilling activities	0.01	None	0	1	Downwind TAML
From WNW	M.V.	11:24	'n	Southwest Perimeter of Southern PAH Zone	Backfilling activities	0.005	None	0	•	Upwind PAML
From WNW	ΜN	14:32	2	Southeast Corner of Data Management Bidg.	Backfilling activities	0.011	None	0		Downwind TAML
From WNW	WW	14:35	۶	Southwest Perimeter of Southern PAH Zone	Backfilling activities	0.004	None	0	,	Upwind PAML

⁻ mg/m³ - milligrams per cubic meter

- ppm - parts per million

- PAML - perimeter air monitoring location

- TAML - temporary air monitoring location

- PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
5/4/05	Sunny, 59F	From S	9:30	7	Southeast Comer of Data Management Bldg.	T&D CAT 2 Soil, Crushing Concrete	0.02	None	0	ı	Upwind TAML
5/4/05	Sunny, 59F	From S	9:27	m	East of Asphalt Parking Lot	T&D CAT 2 Soil, Crushing Concrete	0.018	None	0	ı	Downwind TAML
5/4/05	Sunny, 59F	From S	14:20	. 4	Southeast Corner of Data Management Bldg.	T&D CAT 2 Soil, Crushing Concrete	0.017	None	0		Upwind TAML
5/4/05	Sunny, 59F	From S	14:25	т	East of Asphalt Parking Lot	T&D CAT 2 Soil, Crushing Concrete	0.019	None	0		Downwind TAML

⁻ mg/m³ - miligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Comment	Upwind TAML	Downwind TAML	Upwind TAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•			Ω .
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.032	0.028	0.036	0.028
Activity	Expanding Excavations	Expanding Excavations	Expanding Excavations	Expanding Excavations
Description	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Corner of Data Management Bidg.	East of Asphalt Parking Lot
Loc. #	7	ю	7	ю
Тіте	10:43	10:47	14:17	14:21
Wind Direction	From S	From S	From S	From S
Weather	Sunny, 66F	Sunny, 66F	Sunny, 66F	Sunny, 66F
Date	5/2/05	\$/5/0\$	5/2/05	5/2/05

¹ - mym³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind TAML	Downwind TAML	Upwind TAML	Downwind TAML
Benzene Dreager Tube (ppm)				•
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ , Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.004	0.046	0.026	0.04
Activity	Backfilling activities, crushing concrete	Backfilling activities, crushing concrete	Backfilling activities, crushing concrete	Backfilling activities, crushing concrete
Description	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot
Loc. #	2	т	7	т
Time	11:07	11:10	13:04	13:06
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	Isolated T-Storms, 71F	Isolated T-Storms, 71F	Isolated T-Storms, 71F	Isolated T-Storms, 71F
Date	\$/6/05	\$/6/05	\$/6/05	\$/6/05

^{|-} mg/m³ - milligrams per cubic meter
|- ppm - parts per million
|- PAML - perimeter air monitoring location
|- TAML - temporary air monitoring location
|- PID - photoionization detector

Comment	Upwind TAML	Downwind TAML	Upwind TAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,			
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.062	0.057	0.056	0.088
Activity	crushing concrete, T&D Subtitle C Landfill Soil			
Description	Southeast Comer of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Comer of Data Management Bidg.	East of Asphalt Parking Lot
Loc. #	7	ю	7	ю
Time	11:30	11:33	12:50	12:53
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	Scattered Strong Storms, 70F	Scattered Strong Storms, 70F	Scattered Strong Storms, 70F	Scattered Strong Storms, 70F
Date	5/9/05	5/9/05	5/6/6	2/9/05

^{1 -} mg/m³ - milligrams per cubic meter 2 - ppm - parts per million 3 - PAML - perimeter air monitoring location 4 - TAML - temporary air monitoring location 5 - PID - photoionization detector

zene r Tube m) Comment	. Downwind TAML	Upwind PAML	Downwind TAML	Upwind PAML
Benzene Dreager Tube (ppm)	•	•	•	•
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.029	0.088	0.015	0.011
Activity	Backfilling Activities, T&D Subtitle C Landfill Soil			
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Comer of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	'n	7	٠,
Time	11:59	12:02	13:31	13:34
Wind Direction	From W	From W	From W	From W
Weather	Mostly Sunny, 75F	Mostly Sunny, 75F	Mostly Sunny, 75F	Mostly Sunny, 75F
Date	5/10/05	5/10/05	5/10/05	5/10/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
J	Dow	Up	Dow	D.
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)		•		ı
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.003	0.01	0.01	0.017
Activity	T&D Subtitle C Material	T&D Subtitle C Material	T&D Subtitle C Material	T&D Subtitle C Material
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	8	т	N.	κ
Time	10:30	10:34	13:15	13:19
Wind Direction	From NE	From NE	From NE	From NE
Weather	T-Storms/Wind, 50F	T-Storms/Wind, 50F	T-Storms/Wind, 50F	T-Storms/Wind, 50F
Date	5/11/05	5/11/05	5/11/05	5/11/05

⁻ mg/m³ - milligrams per cubic meter
- ppm - parts per million
³ - PAML - perimeter air monitoring location
- TAML - temporary air monitoring location
² - PID - photoionization detector

Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm) Comment	Downwind PAML	- Upwind TAML	- Downwind PAML	I I American
PID ⁵ (ppm) ²	0	0	0	c
	None	None	None	N
Airborne Particulate (mg/m3) ¹	0.012	0.007	0.019	000
Activity	T&D Subtitle C Material, Backfilling Activities	T&D Subtitle C Material, Backfilling Activities	T&D Subtitle C Material, Backfilling Activities	T&D Subtitle C Material,
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	
Loc. #	٠,	en en	κ	ć
Time	11:45	11:50	14:48	;
Wind Direction	From NE	From NE	From NE	ī
Weather	Cloudy, 48F	Cloudy, 48F	Cloudy, 48F	
Date	5/12/05	5/12/05	5/12/05	

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind TAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)		1		•
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.013	0.019	0.014	0.008
Activity	Backfilling and excavation activities	Backfilling and excavation activities	Backfilling and excavation activities	Backfilling and excavation activities
Description	Southeast Corner of Data Management Bldg.	Northeast Corner of Site	Southeast Perimeter of Southern PAH Zone	Northeast Corner of Site
Loc. #	2	9	_	9
Time	10:35	10:42	14:35	14:44
Wind Direction	From SE	From SE	From SE	From SE
Weather	Rain, 48F	Rain, 48F	Rain, 48F	Rain, 48F
Date	5/13/05	5/13/05	5/13/05	5/13/05

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind TAML	Downwind	Downwind PAML	Upwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	,	,	
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0	0	0	0
Activity	Backfilling and excavation activities	Backfilling and excavation activities	Backfilling and excavation activities	Backfilling and excavation
Description	Southeast Corner of Data Management Bldg.	NWc of DSS Area	Southwest Perimeter of Southern PAH Zone	Northeast Corner of Site
Loc. #	7	NWc of DSS Area	w	9
Time	10:20	10:33	14:14	14:21
Wind Direction	From E	From E	From E	From E
Weather	Partly Cloudy, 60F	Partly Cloudy, 60F	Partly Cloudy, 60F	Partly Cloudy, 60F
Date	5/16/05	5/16/05	2)16/05	5/16/05

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
Clear, 65F	From E	8:45	m	East of Asphalt Parking Lot	Backfilling Activities	0.004	None	0		Upwind TAML
Clear, 65F	From E	8:55	4	Northwest Perimeter of Northern PAH Zone	Backfilling Activities	0.003	None	0	•	Downwind PAML
Clear, 65F	From E	13:02	7	Southeast Corner of Data Management Bldg.	Backfilling Activities	0.009	None	0	•	Upwind TAML
Clear, 65F	From E	13:09	NWc of DSS Area	NWc of DSS Area	Backfilling Activities	0.004	None	0	ı	Downwind

mg/m³ - milligrams per cubic meter
 ppm - parts per million
 PAML - perimeter air monitoring location
 TAML - temporary air monitoring location
 PID - photoionization detector

Comment	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)				
PID ⁵ (ppm) ²	0	0	0	0
Visual PID ⁵ ₁ Dust (ppm) ²	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.002	0.003	0.004	0.009
Activity	Backfilling Activities	Backfilling Activities	Backfilling Activities	Backfilling Activities
Description	Southeast Corner of Data Management Bldg.	Northwest Perimeter of Northern PAH Zone	Southeast Corner of Data Management Bldg.	Northwest Perimeter of Northern PAH Zone
Loc. #	2	4	2	4
Time	10:10	10:25	13:30	13:40
Wind Direction	From SE	From SE	From SE	From SE
Weather	Cloudy, 65F	Cloudy, 65F	Cloudy, 65F	Cloudy, 65F
Date	5/18/05	5/18/05	5/18/05	5/18/05

^{| -} mg/m³ - milligrams per cubic meter
| - ppm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - PID - photoionization detector

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Соттепі	Upwind PAML	Downwind PAML
Benzene Dreager Tube (ppm)	•	ı
PID ⁵ (ppm) ²	0	0
Visual PID ⁵ L Dust (ppm) ²	None	None
Airborne Particulate (mg/m3) ¹	0.005	0.008
Activity	T&D CAT 2 Soil	T&D CAT 2 Soil
Description	Southeast Perimeter of Southern PAH Zone	Northwest Perimeter of Northern PAH Zone
Loc. #		4
Time	10:35	10:45
Wind Direction	From SE	From SE
Weather	Rainy, 60F	Rainy, 60F
Date	5/19/05	5/19/05

⁻ mg/m³ - milligrams per cubic meter

- ppm - parts per million

- PAML - perimeter air monitoring location

- TAML - temporary air monitoring location

- PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
5/20/05	Partly Cloudy, 63F	From NE	12:02	٠,	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.021	None	0		Downwind PAML
5/20/05	Partly Cloudy, 63F	From NE	12:07	e	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.028	None	0	•	Upwind TAML
5/20/05	Partly Cloudy, 63F	From NE	14:10	٧٠	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.025	None	0		Downwind PAML
\$/20/05	Partly Cloudy, 63F	From NE	14:16	т	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.026	None	0	,	Upwind TAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

Comment	Downwind TAML	Upwind TAME	Downwind TAML	Upwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)		•		·
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.039	0.054	0.016	0.01
Activity	T&D CAT 2 Soil	T&D CAT 2 Soil	T&D CAT 2 Soil	T&D CAT 2 Soil
Description	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot	Southeast Corner of Data Management Bldg.	East of Asphalt Parking Lot
Loc. #	7	m	7	ε
Time	9:58	10:02	13:44	13;47
Wind Direction	From N	From N	From N	From N
Weather	Partly Cloudy, 66F	Partly Cloudy, 66F	Partly Cloudy, 66F	Partly Cloudy, 66F
Date	5/23/05	5/23/05	5/23/05	5/23/05

⁻ mg/m³ - milligrams per cubic meter

2 - ppm - parts per million

3 - PAML - perimeter air monitoring location

4 - TAML - temporary air monitoring location

5 - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Vîsual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Dreuger Tube (ppm)	Comment
5/24/05	Partly Cloudy, 61F	From NNE	9:43	٧.	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.082	None	0	•	Downwind PAML
5/24/05	Partly Cloudy, 61F	From NNE	9:48	e	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.015	None	0	•	Upwind TAML
5/24/05	Partly Cloudy, 61F	From NNE	13:59	۸.	Southwest Perimeter of Southern PAH Zone	T&D CAT 2 Soil	0.035	None	0		Downwind PAML
5/24/05	Partly Cloudy, 61F	From NNE	14:02	m	East of Asphalt Parking Lot	T&D CAT 2 Soil	0.002	None	0	•	Upwind TAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)				
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.019	0.015	0.008	0.014
Activity	Backfilling Activities, T&D CAT 2 Soil	Backfilling Activities, T&D CAT 2 Soil	Backfilling Activities, T&D CAT 2 Soil	Backfilling Activities, T&D CAT 2 Soil
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	'n	7	ۍ
Time	9:52	9:55	13:57	13:52
Wind Direction	From E	From E	From E	From E
Weather	Mostly Sunny, 65F	Mostly Sunny, 65F	Mostly Sunny, 65F	Mostly Sunny, 65F
Date	5/25/05	5/25/05	5/25/05	5/25/05

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	Visual PID ⁵ Dust (ppm) ²	Benzene Dreager Tube (ppm)	Comment
5/26/05	Partly Cloudy, 69F	From W	10:00	7	Southeast Corner of Data Management Bldg.	Backfilling Activities	0.005	None	0	ı	Downwind TAML
5/26/05	Partly Cloudy, 69F	From W	10:03	٧٠	Southwest Perimeter of Southern PAH Zone	Backfilling Activities	9.006	None	0		Upwind PAML
5/26/05	Partly Cloudy, 69F	From W	13:37	7	Southeast Corner of Data Management Bidg.	Backfilling Activities	0.007	None	0	,	Downwind TAML
5/26/05	Partly Cloudy, 69F	From W	13:41	\$	Southwest Perimeter of Southern PAH Zone	Backfilling Activities	0.014	None	0		Upwind PAML

mg/m³ - milligrams per cubic meter
 ppm - parts per million
 PAML - perimeter air monitoring location
 TAML - temporary air monitoring location
 PID - photoionization detector

Соттеп	Upwind TAML	Downwind PAML	Upwind TAML	Downwind PAML
Benzene Dreager Tube (ppm)			ı	,
Visual PID ⁵ i Dust (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.013	0.009	0.019	0.018
Activity	Import topsoil, backfilling activities	Import topsoil, backfilling activities	Import topsoil, backfilling activities	Import topsoil, backfilling activities
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	74	٧٠	7	8
Time	10:47	10:43	13:;34	13:37
Wind Direction	From E	From E	From E	From E
Weather	Partly Cloudy, 74F	Partly Cloudy, 74F	Partly Cloudy, 74F	Partly Cloudy, 74F
Date	6/1/03	9/1/02	9/1/9	6/1/05

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind TAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	•
PID ⁵ (ppm) ²	0	0
Visual Dust	None	None
Airborne Particulate (mg/m3) ¹	0.027	0.082
Activity	Expand Excavations	Expand Excavations
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	\$
Time	11:17	11:13
Wind Direction	From E	From E
Weather	6/2/05 Partly Cloudy, 72F	Partly Cloudy, 72F
Date	6/2/05	6/2/05

^{| -} mg/m³ - milligrams per cubic meter
| - mpm - parts per million
| - PAML - perimeter air monitoring location
| - TAML - temporary air monitoring location
| - PID - photoionization detector

DAILY AIR MONITORING DATA LOGS REMEDIAL ACTION WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE WAUKEGAN, ILLINOIS

							Airborne Particulate	Visual		Benzene Dreager Tube	
Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	(mg/m3) ¹	Dust (ppm) ²		(mdd)	Comment
9/3/05	Cloudy, 69F	From E	11:48	2	Southeast Corner of Data Management Bldg.	Backfilling Activities	0.038	None	0	•	Upwind TAML
90/8/9	Cloudy, 69F	From E	11:52	κ)	Southwest Perimeter of Southern PAH Zone	Backfilling Activities	0.035	None	0		Downwind PAML
6/3/05	Cloudy, 69F	From E	13:45	2	Southeast Corner of Data Management Bldg.	Backfilling Activities	0.099	None	0	ı	Upwind TAML
6/3/05	Cloudy, 69F	From E	13:48	\$	Southwest Perimeter of Southern PAH Zone	Backfilling Activities	0	None	0	ı	Downwind PAML

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Downwind TAML	Upwind PAML	Downwind TAML	Upwind PAML
Benzene Visual PID^5 Dreager Tube $Dust$ $(ppm)^2$ (ppm)		•	٠	•
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.004	0.002	0.047	0.001
Activity	Backfilling Activities, Importing Topsoil	Backfilling Activities, Importing Topsoil	Backfilling Activities, Importing Topsoil	Backfilling Activities, Importing Topsoil
Description	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone	Southeast Corner of Data Management Bldg.	Southwest Perimeter of Southern PAH Zone
Loc. #	7	rv	2	ιń
Time	8:43	8;46	13:48	13:51
Wind Direction	From W	From W	From W	From W
Weather	Sunny, 87	Sunny, 87	Sunny, 87	Sunny, 87
Date	6/6/2005	6/6/2005	6/6/2005	6/6/2005

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)			•	,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.023	0.011	0.001	0.003
Activity	Backfilling Activities	Backfilling Activities	Backfilling Activities	Backfilling Activities
Description	Northwest Perimeter of Northern PAH Zone	East of Asphalt Parking Lot	Northwest Perimeter of Northern PAH Zone	East of Asphalt Parking Lot
Loc. #	4	т	4	ю
Time	11:01	11:10	14:45	14:56
Wind Direction	From W	From W	From W	From W
Weather	Sunny, 75F	Sunny, 75F	Sunny, 75F	Sunny, 75F
Date	6/7/2005	6/7/2005	6/7/2005	6/7/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML
$\begin{array}{ccc} & Benzene \\ Visual & PID^5 & Dreager Tube \\ Dust & (ppm)^2 & (ppm) \end{array}$,	•
PID ⁵ (ppm) ²	0	0
Visual Dust	None	None
Airborne Particulate (mg/m3) ¹	0.01	0.015
Activity	Import topsoil	Import topsoil
Description	Northwest Perimeter of Northern PAH Zone	East of Asphalt Parking Lot
Loc. #	4	e
Time	10:36	10:47
Wind Direction	From W	From W
Weather	Sunny, 85F	Sunny, 85F
Date	6/8/2005	6/8/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Airborne Benzene Particulate Visual PID ⁵ Dreager Tube (mg/m3) ¹ Dust (ppm) ² (ppm)	,	,	ı	
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	None	None	None	None
Airborne Particulate (mg/m3) ¹	0.009	0.024	0.007	0.036
Activity	Import topsoil, backfilling activities	Import topsoil, backfilling activities	Import topsoil, backfilling activities	Import topsoil, backfilling activities
Description	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Perimeter of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	ડ	ю	'n	ю
Тіте	9:25	9:30	14:30	14:33
Wind Direction	From SSW	From SSW	From SSW	From SSW
Weather	6/9/2005 Partly Cloudy, 83F			
Date	6/9/2005	6/9/2005	6/9/2005	6/9/2005

¹ - mg/m² - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Downwind TAML	Upwind PAML	Downwind TAML, meter reading unstable	Upwind PAML, meter reading unstable
$\begin{array}{ccc} Benzene \\ Visual & PID^5 & Dreager Tube \\ Dust & (ppm)^2 & (ppm) \end{array}$			ł	·
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	some	yes	yes, due to high winds	slight
Airborne Particulate (mg/m3) ¹	0.147	0.123	0.08	0.18
Activity	Import topsoil	Import topsoil	Import topsoil	Import topsoil
Description	East of Asphalt Parking Lot	North End of Northern PAH Zone	East of Asphalt Parking Lot	North End of Northern PAH Zone
Loc. #	က	41	m	4
Time	10:38	10:46	13:47	14:00
Wind Direction	From SW	From SW	From SW	From SW
Weather	6/14/2005 Scattered Clouds, 77F	Scattered Clouds, 77F	6/14/2005 Partly sunny,80F	6/14/2005 Partly sunny,80F
Date	6/14/2005	6/14/2005	6/14/2005	6/14/2005

¹ - mg/m² - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Weather	Wind Direction	Time	Loc.#	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Airborne Benzene Particulate Visual PID^5 Dreager Tube $(mg/m3)^1$ $Dust$ $(ppm)^2$ (ppm)	Comment
From W		9:51	4	North End of Northern PAH Zone	Place 4-inch sand in southern one third of Site	0.013	none	0	1	Upwind PAML
From W		10:03	ю	East of Asphalt Parking Lot	Place 4-inch sand in southern one third of Site	0.066	slight	0	,	Downwind TAML
From W		13:22	ĸ	Southwest Corner of Southern PAH Zone	Place 4-inch sand in southern one third of Site	0.033	none	0		Upwind PAML
From W		13:28	ю	East of Asphalt Parking Lot	Place 4-inch sand in southern one third of Site	0.01	none	0		Downwind TAML

¹ - mg/m² - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Downwind TAML	Upwind PAME	Upwind PAML	Downwind TAML
Airborne Benzene Particulate Visual PID ⁵ Dreager Tube (mg/m3) ¹ Dust (ppm) ² (ppm)		•		
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.009	0	0.013	0.013
Activity	Place cover sand in southern one third of Site	Place cover sand in southern one third of Site	Place cover sand in southern one third of Site	Place cover sand in southern one third of Site
Description	East of Asphalt Parking Lot	North End of Northern PAH Zone	North End of Northern PAH Zone	East of Asphalt Parking Lot
Loc. #	ю	4	4	ю
Time	8:31	8:40	13:27	13:41
Wind Direction	From W	From W	From W	From W
Weather	Clear, 57F	Clear, 57F	Clear, 75F	Clear, 75F
Date	6/16/2005	6/16/2005	6/16/2005	6/16/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Airborne Benzene Particulate Visual PID ⁵ Dreager Tube (mg/m3) ¹ Dust (ppm) ² (ppm)	•	,		,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.007	0.008	0.015	0.002
Activity	Place cover sand in northern one third of Site	Place cover sand in northern one third of Site	Place cover sand in middle one third of Site	Place cover sand in middle one third of Site
Description	Northeast Corner of Site	Southeast Corner of Data Mngmt. Bldg.	Northeast Corner of Site	East of Asphalt Parking Lot
Loc.#	9	7	9	т
Тіте	9:11	9:17	13:17	13:27
Wind Direction	From NW	From NW	From N	From N
Weather	6/17/2005 Scattered Clouds, 61F	6/17/2005 Scattered Clouds, 61F	Cloudy, 65F	Cloudy, 65F
Date	6/17/2005	6/17/2005	6/17/2005	6/17/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppn - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind PAML
Airborne Benzene Particulate Visual PID^5 Dreager Tube $(mg/m3)^1$ Dust $(ppm)^2$ (ppm)				
PID ⁵ i	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.039	0.018	0.01	0
Activity	Place topsoil in southern one third of Site			
Description	Southwest Corner of Southern PAH Zone	Southeast Corner of Data Mngmt. Bldg.	Southeast Corner of Southern PAH Zone	North End of Northern PAH Zone
Loc. #	гo	7	-	4
Time	10:20	10:13		
Wind Direction	From SW	From SW	From S	From S
Weather	Clear, 76F	Clear, 76F	Clear, 75F	Clear, 75F
Date	6/20/2005	6/20/2005	6/20/2005	6/20/2005

¹ - mg/ m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,	,	,	•
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0	0.029	0.032	0.025
Activity	Place topsoil in southern one third of Site			
Description	Southwest Corner of Southern PAH Zone	Southeast Corner of Data Mngnut. Bldg.	North End of Northern PAH Zone	Southeast Corner of Southern PAH Zone
Loc. #	ŧ٥	7	4	-
Time	11:10	11:06	14:19	14:25
Wind Direction	From W	From W	From N	From N
Weather	Clear, 75F	Clear, 75F	Clear, 90F	Clear, 90F
Date	6/21/2005	6/21/2005	6/21/2005	6/21/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	1	٠	ı	,
PID ⁵ (ppm) ²	0	0	0	0
	none	none	none	none
Airborne Partículate (mg/m3) ¹	0.001	0.01	900.0	0.023
Activity	Place topsoil in southern one third of Site			
Description	Southwest Corner of Southern PAH Zone	Southeast Corner of Data Mngunt. Bidg.	North End of Northern PAH Zone	Southeast Corner of Southern PAH Zone
Loc. #	4	ĸ		ю
Time	10:15	10:23	13:15	13:27
Wind Direction	From N	From N	From N	From N
Weather	Clear, 74F	Clear, 74F	Clear, 82F	Clear, 82F
Date	6/22/2005	6/22/2005	6/22/2005	6/22/2005

¹ - mg/m³ - milligrams per cubic meter
² - ppun - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	,	,	•	,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.033	0.041	0.024	0.035
Activity	Place topsoil in middle one third of Site			
Description	Southeast Corner of Southern PAH Zone	Northeast Corner of Site	Southeast Corner of Southern PAH Zone	Northeast Corner of Site
Loc. #	-1	9	ri	9
Time	10:32	10:40	12:57	13:12
Wind Direction	From S	From S	From S	From S
Weather	Clear, 73F	Clear, 73F	Clear, 82F	Clear, 82F
Date	6/23/2005	6/23/2005	6/23/2005	6/23/2005

¹- mg/m³- milligrams per cubic meter
²-ppm - parts per million
³-PAML - perimeter air monitoring location
⁴-TAML - temporary air monitoring location
⁵-PID - photoionization detector

Comment	Upwind PAML	Downwind TAML	Upwind PAML	Downwind TAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	•	•	1	,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	slight	slight	none
Airborne Particulate (mg/m3) ¹	0.046	0.068	0.032	0.047
Activity	Place topsoil in north one third of Site			
Description	Southwest Corner of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Corner of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	ហ	ю	Ŋ	e
Time	11:05	11:10	14:20	14:32
Wind Direction	From W	From W	From W	From W
Weather	Clear, 88F	Clear, 88F	Clear, 96F	Clear, 96F
Date	6/24/2005	6/24/2005	6/24/2005	6/24/2005

¹ - mg/m² - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID 5 Dreager Tube Dust $(ppm)^2$ (ppm)	ı	•	•	ı
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	slight	none	slight
Airborne Particulate (mg/m3) ¹	0.095	0.084	0.11	0.075
Activity	Place topsoil in north one third of Site			
Description	Southeast Corner of Southern PAH Zone	North End of Northern PAH Zone	Southeast Corner of Southern PAH Zone	Northeast Corner of Site
Loc. #	perof	4	yuud	9
Time	10:19	10:27	14:14	14:23
Wind Direction	From S	From S	From S	From S
Weather	Clear, 85F	Clear, 85F	Hazy, 90F	Hazy, 90F
Date	6/27/2005	6/27/2005	6/27/2005	6/27/2005

⁻ mg/m³ - milligrams per cubic meter
2 - ppm - parts per million
3 - PAML - perimeter air monitoring location
4 - TAML - temporary air monitoring location
5 - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
6/28/2005	Scattered Clouds, 81F	From SSW	11:05		Southeast Corner of Southern PAH Zone	Grading placed topsoil	0	none	0	•	Upwind PAML
6/28/2005	Scattered Clouds, 81F	From SSW	11:15	ø	Northeast Corner of Site	Grading placed topsoil	0	попе	0	ı	Downwind PAML
6/28/2005	Clear, 90F	From W	13:21	4	North end of Northern PAH Zone	Grading placed topsoil	0	попе	0	ı	Upwind PAML
6/28/2005	Clear, 90F	From W	13:30	т	East of Asphalt Parking Lot	Grading placed topsoil	0.01	none	0	·	Downwind TAML

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)				Ω ,
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	none	none	нопе	none
Airborne Particulate (mg/m3) ¹	0	0	0	0.01
Activity	Grade topsoil in middle one third of Site			
Description	Southeast Corner of Southern PAH Zone	Northeast Corner of Site	Northeast Corner of Site	Southwest Corner of Southern PAH Zone
Loc. #	-	9	9	ιν
Time	9:41	9:48	13:33	13:40
Wind Direction	From S	From S	From N	From N
Weather	Clear, 82F	Clear, 82F	Clear, 85F	Clear, 85F
Date	6/29/2005	6/29/2005	6/29/2005	6/29/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Airborne Benzene Particulate Visual PID^5 Dreager Tube $(mg/m3)^1$ Dust $(ppm)^2$ (ppm)		pend 1	t	
Visual PID ⁵ Dust (ppm) ²	0	0	0	0
Visual Dust	none	попе	none	none
Airborne Particulate (mg/m3) ¹	0.009	0.004	0.005	0.04
Activity	import/place topsoil	import/place topsoil	import/place topsoil	import/place topsoil
Description	Southwest Corner of Southern PAH Zone	Northeast Corner of Site	Southwest Corner of Southern PAH Zone	Northeast Corner of Site
Loc. #	ĸ	9	ĸ	9
Time	9:17	9:29	14:12	14:21
Wind Direction	From SW	From SW	From SW	From SW
Weather	Clear, 78F	Clear, 78F	Clear, 92F	Clear, 92F
Date	6/30/2005	6/30/2005	6/30/2005	6/30/2005

¹ - mg/m² - milligrams per cubic meter ² - ppnr - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
	From N	9:28	9	Northeast Corner of Site	Grade topsoil	0	попе	0	•	Upwind PAML
	From N	9:19	ທ	Southwest Corner of Southern PAH Zone	Grade topsoil	0	none	0	ŧ	Downwind PAML
	From N	14:49	çund	Southeast Corner of Southern PAH Zone	Grade topsoil	0.014	none	0	,	Downwind PAML
	From N	15:00	9	Northeast Corner of Site	Grade topsoil	0.015	none	0		Ilnwind PAMI

¹ - mg/m³ - milligrams per cubic meter
² - ppm - parts per million
³ - PAML - perimeter air monitoring location
⁴ - TAML - temporary air monitoring location
⁵ - PID - photoionization detector

Date	Weather	Wind Direction	Time	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹	Visual Dust	PID ⁵ 1 (ppm) ²	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
7/6/2005	Cloudy, 78F	From E	9:32	ю	East of Asphalt Parking Lot	import/place topsoil	0.034	попе	0	ì	Upwind TAML
7/6/2005	Cloudy, 78F	From E	9:40	4	North End of Northern PAH Zone	import/place topsoil	0.026	попе	0		Downwind PAML
7/6/2005	Cloudy, 80F	From E	15:10	ю	East of Asphalt Parking Lot	import/place topsoil	0.002	none	0	ı	Upwind TAML
7/6/2005	Cloudy, 80F	From E	15:18	4	North End of Northern PAH Zone	import/place topsoil	0.015	none	0		Downwind PAML

¹-mg/m³- nuilligrams per cubic meter
²-ppun - parts per million
³-PAML - perimeter air monitoring location
⁴-TAML - temporary air monitoring location
⁵-PID - photoionization detector

Соттент	Downwind PAML	Upwind PAML	Upwind PAML	Downwind PAML
Benzene Visual PID 5 Dreager Tube Dust $(ppm)^2$ (ppm)	ı	•	,	
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.006	0	0.002	0.001
Activity	import/place topsoil in northern one third of Site			
Description	Southwest Corner of Southern PAH Zone	Northeast Corner of Site	Northeast Corner of Site	Southwest Corner of Southern PAH Zone
Loc. #	ιΩ	9	9	ιc
Time	10:58	11:07	13:42	13:58
Wind Direction	From NE	From NE	From N	From N
Weather	Clear, 80F	Clear, 80F	Clear, 80F	Clear, 80F
Date	7/7/2005	7/7/2005	7/7/2005	7/7/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Airborne Benzene Particulate Visual PID^5 Dreager Tube $(mg/m3)^1$ Dust $(ppm)^2$ (ppm)	•	1		,
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.001	0	0.003	0
Activity	import/place topsoil in DSS area	import/place topsoil in DSS area	import/place topsoil in DSS area	import/place topsoil in DSS area
Description	Northeast Corner of Site	Southeast Corner of Southern PAH Zone	Northeast Corner of Site	Southeast Corner of Southern PAH Zone
Loc. #	9	·····	9	, -
Time	10:03	10:13	14:15	14:23
Wind Direction	From N	From N	From N	From N
Weather	Clear, 82F	Clear, 82F	Clear, 82F	Clear, 82F
Date	7/8/2005	7/8/2005	7/8/2005	7/8/2005

¹ - mg/m² - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Date	Weather	Wind Direction	Тіте	Loc. #	Description	Activity	Airborne Particulate (mg/m3) ¹		PID ⁵ 1	Benzene Visual PID ⁵ Dreager Tube Dust (ppm) ² (ppm)	Comment
7/11/2005	Cloudy, 80F	From NE	10:56	9	Northeast Corner of Site	import topsoil	0	none	0	ı	Upwind PAML
7/11/2005	Cloudy, 80F	From NE	11:01	4	North End of Northern PAH Zone	import topsoil	0.011	none	0	•	Downwind PAML
7/11/2005	Cloudy, 80F	From NE	13:38	9	Northeast Corner of Site	import topsoil	0	попе	0		Upwind PAML
7/11/2005	Cloudy, 80F	From NE	13:47	4	North End of Northern PAH Zone	import topsoil	0.012	none	0	,	Downwind PAML

¹ - mg/m² - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector

Comment	Downwind PAML	Upwind TAML	Downwind PAML	Upwind TAML
Dreager Tube (ppm)	•	1	ì	
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Particulate (mg/m3) ¹	0.034	0.018	0.067	0.016
Activity	Grading topsoil	Grading topsoil	Grading topsoil	Grading topsoil
Description	Southwest Corner of Southern PAH Zone	East of Asphalt Parking Lot	Southwest Corner of Southern PAH Zone	East of Asphalt Parking Lot
Loc. #	ις	ю	RO	ю
Time	11:45	11:54	12:54	12:58
Wind Direction Time	From NE	From NE	From NE	From NE
Weather	Scattered T-storms, 83F	Scattered T- storms, 83F	Scattered T-storms, 83F	Scattered T-storms, 83F
Date	7/13/2005	7/13/2005	7/13/2005	7/13/2005

Comment	Upwind PAML	Downwind PAML	Upwind PAML	Downwind PAML
Airborne Benzene Particulate Visual PID^5 Dreager Tube $(mg/m3)^1$ $Dust$ $(ppm)^2$ (ppm)	,		•	
PID ⁵ (ppm) ²	0	0	0	0
Visual Dust	none	none	none	none
Airborne Particulate (mg/m3) ¹	0.012	0	0.016	0.03
Activity	import stone for Larsen Marine	import stone for Larsen Marine	import stone for Larsen Marine	import stone for Larsen Marine
Description	Northeast Corner of Site	Southwest Corner of Southern PAH Zone	Northeast Corner of Site	Southwest Corner of Southern PAH Zone
Loc. #	9	ĸ	9	ĸ
Time	10:12	10:18	13:08	13:21
Wind Direction	From N	From N	From N	From N
Weather	Clear, 78F	Clear, 78F	Clear, 85F	Clear, 85F
Date	7/14/2005	7/14/2005	7/14/2005	7/14/2005

¹ - mg/m³ - milligrams per cubic meter ² - ppm - parts per million ³ - PAML - perimeter air monitoring location ⁴ - TAML - temporary air monitoring location ⁵ - PID - photoionization detector